



6.5.3 Quality assurance initiatives of the institution include:

- 1. Regular meeting of Internal Quality Assurance Cell (IQAC);
Feedback collected, analysed and used for improvements**
- 2. Collaborative quality initiatives with other institution(s)**
- 3. Participation in NIRF**
- 4. Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

REPORTS OF THE QUALITY ASSURANCE INITIATIVES

+91 4822 212317
+91 9188420859
+91 9447140859

principal.stc@gmail.com
www.stcp.ac.in

Arunapuram P.O., Kottayam
Kerala - 686 574
India



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Conferences, Seminars, Workshops on quality conducted

2018-19

ST. THOMAS COLLEGE, PALAI

Arunapuram P.O., Kottayam - 686 574, Kerala, India

College with Potential for Excellence (CPE) recognized by UGC

NAAC Accredited (3rd Cycle) with A Grade (CGPA: 3.30) in 2015

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Three Day National Workshop

On

INTELLECTUAL PROPERTY RIGHTS AND INDUSTRY-ACADEMIA INTERFACE

(UGC-CPE Sponsored)

Organized by

Internal Quality Assurance Cell (IQAC)

St. Thomas College, Palai



On

26, 27 & 28 March 2019

Venue: St. Joseph's Hall



Dear Sir/Madam,

The IQAC of St. Thomas College, Palai is organizing a Three Day National Workshop on ***Intellectual Property Rights (IPR) and Industry-Academia Interface*** during 26-28 March 2019. You are most welcome to the event.

Teachers, scholars and industrial experts are invited to present papers on the theme of the workshop. The papers are to be typed in English, MS Word, Font - Times New Roman, Size -12 and Spacing -1.5.

- Last date for submission of abstracts (Maximum 250 words): 22 March 2019.
- Email notification of selected abstracts: 23 March 2019.
- Last date for submission of full papers (Maximum 1500 words): 25 March 2019.

Registration Fee: Rs. 500/- (Including food and seminar kit). Scholars who wish to present papers are to pay Rs. 100/- in addition for a copy of the proceedings.

Accommodation can be arranged on payment.

For Registration and Paper Submission, contact:

Dr. Sunil C Mathew, Co-ordinator, IQAC

Mob: 8921883008, Email: iqac1step@gmail.com

Resource Persons

Prof. Dr. Sabu Thomas

(Hon. Professor in Charge of Vice Chancellor, Mahatma Gandhi University, Kottayam)

Prof. Dr. K C Sunny

(Hon. Vice Chancellor, NUALS, Kochi)

Prof. Dr. Feroz Ali

(IPR Chair Professor, IIT Madras)

Prof. Dr. Bismi Gopalakrishnan

(Member Syndicate, Dean Faculty of Law, Mahatma Gandhi University Kottayam)

Mr. Manoj K Das

(Resident Editor (Kerala), Times of India)

Prof. Dr. Shaji Varkey

(Dean of Social Sciences & Professor of Political Science, University of Kerala, Trivandrum)

Dr. V A Joseph

(Former Chairman, Managing Director & CEO of South Indian Bank)

Adv. S. Venugopalan Nair

(Senior Intellectual Property Attorney)

Adv. Benoy K Kadavan

(Partner, Kadavans Legal Offices & Visiting Faculty, NUALS, Kochi.)

Dr. Joby P P

(Professor & Head, Department of Computer Science & Engineering, SJ CET Palai)

Organizing Committee

Rev. Dr. James John

(Principal)

Dr. Sunny Kuriakose

(Vice Principal)

Rev. Fr. Mathew Kurian

(Bursar)

Dr. Sunil C Mathew

(Co-ordinator, IQAC)

Mr. Bobby Simon

(Organizing Secretary)

Dr. Ison V Vanchipurackal

Dr. Ratheesh M

Dr. Babu Jose

Mr. Augustine J Edakkara

Mr. Jishnu Venugopal

Ms. Shilpa Mathew

Miss. Tinchu P James

Mr. Gibin Raja George

Mr. Roberse Thomas

Three Day National Workshop (UGC-CPE Sponsored)
On
Intellectual Property Rights (IPR) and
Industry-Academia Interface

Organized by
IQAC, St. Thomas College Palai

On
26, 27 & 28 March 2019.

Report of the Workshop

The three day national workshop on IPR and industry academia interface was organized by IQAC of St. Thomas College Palai from 26 March 2019 to 28 March 2019. The workshop was started with almighty's blessings. The guests were welcomed by Rev. Dr. James John, Principal, St. Thomas College Palai and he gave a note on IPR. The presidential address was given by Msgr. Sebastian Vethanath, Syncellus, Eparchy of Palai. It was his first visit after becoming syncellus. He expanded the history of IPR.



Welcome Speech



Presidential Address

The workshop was inaugurated by Prof. Dr. K. C. Sunny by lighting the lamp. He addressed the audience about IPR. Prof. Dr. Feroz Ali, IPR Chair Professor, IIT Madras gave the felicitation. Rev. Fr. Mathew Kurian, Bursar, St. Thomas College Palai expressed his sincere gratitude to all the guests for their presence.



Inauguration



Inaugural Address

The first technical session was lead by Prof. Dr. Feroz Ali, IPR Chair Professor, IIT Madras. He detailed about IPR technically. He introduced IPR as an egg shell which protects the fruits of creative labour. He added about the different forms along with different application levels of IPR. He went on detailing patents and its procedure. The session was concluded by giving an open forum for questions.



Technical Session - I



Technical Session - II

The second technical session was headed by Mr. Manoj K. Das, Resident Editor (Kerala), Times of India. Being an experienced journalist, he extended his talk beyond the session’s topic. He just gave an overview on various instances including the life incidents of singers Ilayaraja and cartoonist Toms which shows the relationship between IPR and Mass Media. The session was chaired by Dr. Tejil Thomas, Assist Professor of Commerce of the College. This session was more focused on question - answer session.

The second day was started by third technical session. It was on “Neoliberal Global order and IPR” and was lead by Prof. Dr. Shaji Varkey, Dean of Social Sciences, Professor of Political Science, University of Kerala. Trivandrum. Dr. Stany Thomas of Political science

department chaired the session. He had a sceptical point of view for IPR and stated that IPR has a definite relationship with neoliberal global order .The session was concluded by providing a forum for question answer session.



Technical Session - III



Technical Session - IV

The fourth technical session on “Legal aspects of IPR; challenges and opportunities” was headed by Adv. Benoy K Kadavan, Partner, Kadavans legal offices of visiting faculty, NU-ALS, Kochi. He provided the basics of IPR. He included various laws and enactments, copyright, trademark etc. He detailed about patents and also discussed about various challenges and opportunities of IPR. Question answer session was followed after the session.

The fifth technical session on “IPR vis a vis industry and academia: challenges and opportunities for innovation practice” which was guided by Prof. Dr. Bismi Gopalakrishnan, member syndicate, Dean faculty of Law, Professor and Director school of legal thoughts, MG university Kottayam. She gave a brief idea regarding IPR and mentioned about the advantages of IPR. She also stated that IPR does not exclude the principles of social justice. It was concluded by having a question answer session.

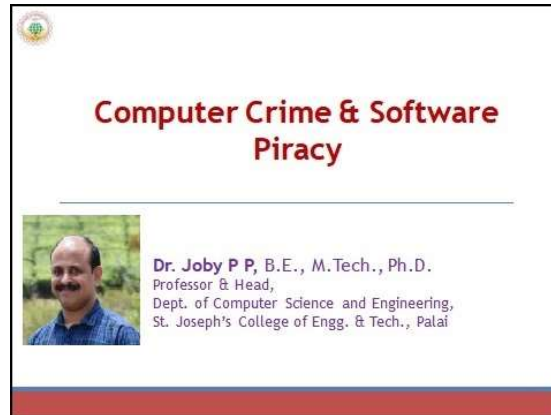


Technical Session - V



Technical Session - VI

The final day of workshop started by sixth technical session. The sixth technical session on ‘Human Rights Violations in IPR’ was lead by Adv. S Venugopalan Nair, senior Intellectual Property Attorney. He started the session with a seven minutes video presentation on India needs innovation and discussed about IPR. He showcased many cases and instances which shows human rights violations in IPR. The session was concluded by an open discussion.



Technical Session - VII

The seventh technical session on “Computer Crime and Software Piracy” was headed by Prof. Dr. Joby P.P., Professor and Head, Department of Computer Science & Engineering, SJCTET Palai. He discussed about security threats and cyber crimes and also added about software and various software piracies. The session was concluded by providing a forum for question answer session.



- 03.15 pm - 04.15 pm : **Technical Session - III**
Dr. Vimal Rarh continues
- 04.15 pm - 5.00 pm : **Paper Presentations**
- 08 February 2019, Friday**
- 09.00 am - 10.00 am : **Paper Presentations**
- 10.00 am - 11.15 am : **Technical Session - IV**
*Teaching, Learning and Evaluation:
 Evolving an Integrated Approach for Quality
 Enhancement in Higher Education*
Dr. Selvam Jesiah
 Professor and Vice Principal, Faculty of
 Management, Sri Ramachandra Institute of
 Higher Education and Research, Chennai
- 11.15 am - 11.45 am : Tea
- 11.45 am - 01.00 pm : **Technical Session - V**
Dr. Selvam Jesiah continues
- 01.00 pm - 02.00 pm : Lunch
- 02.00 pm - 03.00 pm : **Technical Session - VI**
*Imparting Quality in Teaching, Learning and
 Evaluation - A Systems Approach*
Dr. Gabriel Simon Thattil
 Professor of Commerce and Director IQAC,
 University of Kerala.
- 03.00 pm - 3.15 pm : Tea
- 03.15 pm - 04.15 pm : **Technical Session - VII**
Dr. Gabriel Simon Thattil continues
- 04.15 pm - 5.00 pm : Valedictory



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National Seminar

On

**Teaching, Learning and Evaluation:
 Shifting Protocols in Pedagogical Dynamics**

Sponsored by

National Assessment and Accreditation Council (NAAC)



Organized by

Internal Quality Assurance Cell (IQAC)

St. Thomas College, Palai



On

7 & 8 February 2019

Venue: Executive Seminar Hall



Dear Sir/Madam,

The IQAC of St. Thomas College, Palai is organizing a NAAC sponsored National Seminar titled *Teaching Learning and Evaluation: Shifting Protocols in Pedagogical Dynamics* on 7 & 8 February 2019. You are most welcome to the event.

The seminar brings together academic administrators, IQAC coordinators/ members, faculty and teacher trainees under one roof to exchange views and ideas about the recent trends in teaching, learning and evaluation process. This academic exercise is intended to assist the participants to becoming more effective, creative and productive in their endeavors. Integrating technology in teaching shall certainly lead to a qualitative change in our attitude towards education. **Prof. Ved Prakash**, Former Chairman, University Grants Commission has kindly consented to inaugurate the seminar and deliver the keynote address. The inaugural function will be presided over by **His Excellency Mar Jacob Muricken**, Manager of the College and Auxiliary Bishop of Palai.

The motto of IQAC, St. Thomas College, Palai is *Learn from the Masters*. Accordingly, we are privileged to have experts like **Prof. Dr. Sabu Thomas**, Hon. Vice Chancellor in charge, Mahatma Gandhi University Kottayam, **Dr. Vimal Rarh**, Project Head & Joint Director, GAD-TLC, MHRD & Coordinator, NRCC, MHRD, **Dr. Selvam Jesiah**, Professor and Vice Principal, Faculty of Management, SRIHER, Chennai and **Dr. Gabriel Simon Thattil**, Professor of Commerce and Director IQAC, University of Kerala engaging different sessions.

Teachers, teacher trainees and educational experts are invited to present papers during the seminar. Selected papers will be published in the proceedings of the seminar. The papers are to be in English, MS Word, Font - Times New Roman, Size -12 and Spacing -1.5.

- Last date for submission of abstracts (maximum 250 words): 29 January 2019.
- Notification of selected abstracts in the College website: 31 January 2019.
- Last date for submission of full papers (maximum 1500 words): 04 February 2019.

Registration Fee: Students: Rs. 300/-, Others: Rs. 500/- (including food and seminar kit). Scholars who wish to present papers are to pay an additional sum of Rs. 100/- for a copy of the proceedings. Accommodation can be arranged on payment.

Dr. Ison V. Vanchipurackal
Organizing Secretary

Dr. Sunil C. Mathew
Coordinator, IQAC

Rev. Dr. James John
Principal

07-01-2019

For Registration and paper submission, contact:
Dr. Sunil C Mathew, Mob: 8921883008, Email: iqac1stcp@gmail.com
For detailed schedule: [www.stcp.ac.in/College Events](http://www.stcp.ac.in/College%20Events)



NAAC Sponsored National Seminar on Teaching Learning and Evaluation: Shifting Protocols in Pedagogical Dynamics

Organized by
IQAC, St. Thomas College, Palai on 7 & 8 February 2019.

PROGRAMME

07 February 2019, Thursday

- | | |
|-------------------------------------|--|
| 9.00 - 9.45 am | : Registration |
| 09.45 am - 11.15 am | : Inauguration |
| Prayer | : |
| Welcome | : Rev. Dr. James John
Principal, St. Thomas College Palai |
| Presidential Address | : H.E. Mar Jacob Muricken
Manager, St. Thomas College Palai |
| Inauguration and
Keynote address | : Prof. Ved Prakash
Former Chairman, University Grants Commission |
| Vice Chancellor's Message | : Prof. Dr. Sabu Thomas
Hon. Vice Chancellor in Charge,
Mahatma Gandhi University, Kottayam |
| Vote of Thanks | : Rev. Fr. Mathew Kurian
Bursar, St. Thomas College Palai |
| 11.15 am - 11.45 am | : Tea |
| 11.45 am - 01.00 pm | : Technical Session - I
<i>Higher Education in India : Issues and Concerns</i>
Prof. Ved Prakash
Former Chairman, University Grants Commission |
| 01.00 pm - 02.00 pm | : Lunch |
| 02.00 pm - 03.00 pm | : Technical Session - II
<i>E-Learning and MOOCs in Higher Education</i>
Dr. Vimal Rarh
Project Head & Joint Director, GAD-TLC of
MHRD & Coordinator, National Resource Centre
of Chemistry of MHRD |
| 03.00 pm - 3.15 pm | : Tea |

NAAC Sponsored National Seminar on Teaching, Learning and Evaluation: Shifting Protocols in Pedagogical Dynamics

Organized by

IQAC, St. Thomas College Palai

on

7 & 8 February 2019.

REPORT OF THE SEMINAR

A Two-day National Seminar titled **Teaching, Learning and Evaluation: Shifting Protocols in Pedagogical Dynamics** was organized by the Internal Quality Assurance Cell (IQAC), St. Thomas College, Palai on 7 & 8 February 2019 under the sponsorship of National Assessment and Accreditation Council (NAAC). The seminar brought together academic administrators, IQAC coordinators and faculty to exchange their views and ideas about the recent trends in teaching, learning and evaluation process. It was indeed an academic exercise intended to assist the participants to become more effective, creative and productive in their endeavours. The highlight of the programme was integrating technology in teaching which in turn led to a qualitative change in our attitude towards education.



Inaugural Session



Welcome Speech : Rev. Dr. James John

Registration was open till 9.45am on the first day. 173 delegates from various parts of the country participated in the seminar. It started with an invocation to God Almighty which was followed by a Welcome Speech by Rev. Dr. James John, Principal, St. Thomas College,

Palai. The function was presided over by His Excellency Mar Jacob Muricken, Manager of the College and Auxiliary Bishop of Palai.



Presidential Address : H. E. Mar Jacob Muricken



Inauguration

Prof. Ved Prakash, Former Chairman, University Grants Commission inaugurated the seminar and delivered the keynote address. Felicitation Speech was delivered by Dr. Vimal Rarh, Project Head & Joint Director, GAD-TLC, MHRD and Coordinator, NRCC, MHRD. Bursar of the college, Rev. Fr. Mathew Kurian proposed the Vote of Thanks.

The first Technical Session was led by Prof. Ved Prakash and was chaired by Dr. K. K. Jose, an erudite scholar and former Principal, St. Thomas College, Palai. Prof. Ved Prakash gave the audience an insight into the issues and concerns of higher education in India.



Keynote Address : Dr. Ved Prakash



Felicitation : Dr. (Mrs.) Vimal Rarh

The post-lunch Technical Sessions discussed **E-learning and MOOCs in Higher Education** and was led by Dr. Vimal Rarh. Prof. Jogy Alex, Associate Professor, Dept. of Chemistry, St. Thomas College, Palai was the chairperson. Participants raised questions

and had their doubts cleared by Dr. Rarh. It was indeed a useful session.



Technical Session I : Dr. Ved Prakash



Technical Session II & III : Dr. (Mrs.) Vimal Rarh

Day One of the Seminar concluded with paper presentations from 7 learned scholars and the sessions were conducted in two venues concurrently.

The Second Day of the Seminar commenced with paper presentations at 9.30am and followed by fruitful discussions on the 6 presentations scheduled for the day.

The first Technical Session of the day was addressed by Dr. Selvam Jessiah, Professor and Vice Principal, Faculty of Management, Sri Ramachandra Institute of Higher Education and Research, Chennai. The topic of his talk was **Teaching, Learning and Evaluation: Evolving an Integrated Approach for Quality Enhancement in Higher Education**. Dr. Siby James, Associate Professor, Dept. of English, St. Thomas College, Palai chaired the session. The talk was indeed productive and participants thoroughly enjoyed the interactive session and commented it as truly rewarding.



Technical Session IV & V : Dr. Selvam Jessiah



Technical Session VI & VII : Dr. Gabriel Simon Thattil

The afternoon session was led by Dr. Gabriel Simon Thattil, Professor of Commerce and Director, IQAC, University of Kerala. He talked on **Imparting Quality in Teaching, Learning and Evaluation - A Systems Approach**. Dr. Joy Jacob, Former Principal, Deva Matha College, Kuravilangad chaired the session. Participants spoke about their limitations and time restraints for not being able to create an effective learner-oriented classroom ambience due to the semester system.

The two-day National Seminar finally came to an end with an informal feedback session. Rev. Dr. James John, Principal, St. Thomas College, Palai presided the concluding session. The Seminar co-ordinators, Dr. Ison V. Vanchipurackal and Dr. Sunil C. Mathew were also invited to be seated on the dais, while the delegates expressed their happiness for being able to participate in the seminar and also gave feedback regarding each Technical Session and the quality and proficiency of the speakers. Finally, Principal thanked the Convenors for their competence and perseverance for organising such a seminar, and the delegates for their participation and support. He also congratulated the unseen heroes behind the success of the program- the teachers of various departments of St. Thomas College, Palai who were the organisers of different committees whose ideal execution of their duties made the Seminar possible



Vote of Thanks : Rev. Fr. Mathew Kurian

OUTCOME OF THE SEMINAR

There were 173 participants from all over the country, including Academic administrators, IQAC co-ordinators, IQAC members and faculty members in the seminar. The resource persons and other guests shared their views and ideas about the recent trends in teaching, learning and evaluation process. The keynote address and the first technical session briefed the issues, concerns and challenges in the present day education system. The second and third technical sessions familiarized the Govt. of India's MOOCs digital initiatives in education. It provided a clear understanding of the importance, possibilities and challenges in MOOCs related areas. The urgent role of teachers in developing MOOCs was highlighted. The requirement of a professional development in the new-age-ICT-enabled pedagogy was also discussed. Developing an "integrated approach" for quality enhancement in higher education was the theme of the fourth and fifth technical sessions. The sessions were useful in understanding the necessity of flexibility to face the challenges in a global contest. The sixth and seventh sessions were on "systems approach" that helped the participants in understanding the strategies in higher education institutions of excellence. The participants were motivated for a professional change in their attitude towards education by integrating technology in their initiatives. The seminar also gave the participants a clear understanding of how the students learn in the post-modern era.

Follow up Actions

- The college has decided to develop strategies for developing new MOOCs.
- Discussions on starting a new centre of e-learning in association with GAD-TLC of MHRD are going on.
- Proposal for suggesting suitable e-learning courses to advanced learners is planned.
- More seminars of this kind have to be arranged.
- Introduction of "systems approach" in Teaching, Learning and Evaluation.

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State Level Two Day Training Programme

for

PFMS-EAT & DBT Module

Organized by

Internal Quality Assurance Cell (IQAC)

St. Thomas College, Palai



On

16 & 17 May 2019

Venue: Computer Centre



Dear Sir/Madam,

The IQAC of St. Thomas College, Palai is organizing a State Level Two Day Training Programme for **PFMS-EAT & DBT Module** during 16-17 May 2019. You are most welcome to the event.

Registration Fee: Rs. 500/- (Including food and seminar kit).

Accommodation can be arranged on payment.

For Registration, contact:

Dr. Sunil C Mathew, Co-ordinator, IQAC

Mob: 8921883008, Email: iqaclstep@gmail.com

Organizing Committee

Rev. Dr. James John (*Principal*)

Dr. Sunny Kuriakose (*Vice Principal*)

Rev. Fr. Mathew Kurian (*Bursar*)

Dr. Sunil C Mathew (Co-ordinator, IQAC)

Mr. Libin Kuriakose (Organizing Secretary)

Dr. Ison V Vanchipurackal

Dr. Babu Jose

Dr. Tejil Thomas

Mr. Augustine J Edakkara

Mr. Jishnu Venugopal

Mr. Gibin Raja George

Mr. Vivek S

Resource Persons

Mr. A RAJESH.

(*Sr. Accounts Officer, PFMS, SPMU, Kerala*)

Mr. ROY M N

(*Operation Manager, PFMS, SPMU, Kerala*)

Programme

16/05/2019:

9.00 am: Registration

9.30 am: Inaugural Ceremony

10.00 am - 11.15 am:

Introduction to PFMS EAT module -

Mr. A RAJESH

11.15 am - 11.30 am: Tea Break

11.30 am - 01.00 pm:

Expenditure Module - Mr. ROY M N

01.00 pm - 02.00 pm: Lunch Break

02.00 pm - 03.15 pm:

Advance Module - Mr. A RAJESH

03.15 pm - 03.30 pm: Tea Break

03.30 pm - 05.00 pm:

Hands on Training on EAT Module –

Mr. A RAJESH & Mr. ROY M N

17/05/2019:

9.30 am - 11.00 am:

Transfer module - Mr. ROY M N

11.00 am - 11.15 am: Tea Break

11.15 am - 12.30 am:

Introduction to DBT module -

Mr. A RAJESH

12.30 am - 01.30 pm: Lunch Break

01.30 pm - 03.00 pm:

Hands on Training on EAT Module -

Mr. A RAJESH & Mr. ROY M N

03.00 pm - 03.15 pm: Tea Break

03.15 pm - 04.30 pm:

Hands on Training on EAT Module –

Mr. A RAJESH & Mr. ROY M N

04.30 pm - Valedictory Session &

Distribution of Certificates.

State Level Two Day Training Programme For PFMS – EAT & DBT Module

Organised by

IQAC, St. Thomas College Palai on 16 May 2019 & 17 May 2019

A Brief Report

A State Level Two Day Training Programme for PFMS – EAT & DBT Module, was organized by IQAC, ST. Thomas College Palai, on 16 May, 2019 & 17 May, 2019. The programme was sponsored by the college management. It was intended to equip faculty in charge of PFMS and administrative staffs of different colleges to effectively manage central government and associated agencies funds management and tracking system better known as “Public Fund Management System (PFMS)”. The resource persons for the two-day training programme were Mr. A Rajesh, Sr. Accounts Officer and Mr. Roy M N, Operation Manager, PFMS, SPMU, Kerala. There were 23 participants from different colleges, of which 11 were faculty members and 12 were administrative staffs.



The inaugural function for the training programme started at 10 am on 16 May, 2019 at computer centre, St. Thomas College Palai with a silent prayer. Dr. Sunny Kuriakose, Vice Principal welcomed the gathering. He pointed out the need for expertise in PFMS, since it will be the lone fund transaction portal for all central or associated agencies assisted financial managements. The function presided over by Rev. Dr. James John, Principal and during his presidential address, he emphasized the fact that PFMS will bring the transparency and digitalization for all financial transaction of all institutions, which are having aid from central or state government / agencies. The programme was inaugurated by Mr. A Rajesh, Sr. Accounts Officer, PFMS, SPMU, Kerala. He explained that, how the office of Controller General of Accounts, Ministry of Finance, Government of India, implemented the system. Mr. Roy M N, Operation Manager, PFMS, SPMU, Kerala, addressed the gathering. Mr. Libin Kuriakose, Assistant Professor and Programme coordinator proposed the vote of thanks.



The programme was organized in such a way that there were enough time slots for hands on training with demo portal of the PFMS. Two-day training programme covered the PFMS modules such as EAT and DBT in detail. On the first day, Mr. A Rajesh handled sessions on general introduction to PFMS and Advance module. Mr. Roy M N discussed the Expenditure Module. They jointly managed the hands on training session. On the second day of the programme, there were sessions on Transfer module and Direct Benefit Transfer module, handled by Mr. Roy M N and Mr. A Rajesh respectively, followed by the hands on training sessions.

The participants, mentioned that, the hands of training sessions were very fruitful, since it provided the them to get acquainted with PFMS and to rectify the issues faced by them.



Local hospitality was extended to all participants. The certificate of participation was distributed to all participants during the valedictory session. All the participants appreciated the well-arrangement of the training programme, sincerity as well as dedications of resource persons and organizing committee.


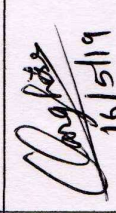
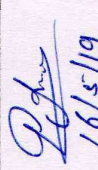
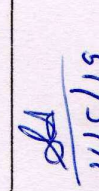
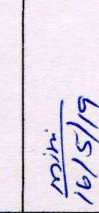
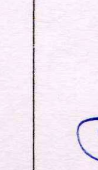
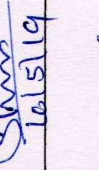
TWO DAY TRAINING PROGRAMME on PFMS EAT and DBT MODULE

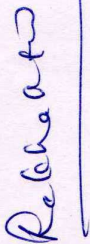







ORGANISED by IQAC, ST. THOMAS COLLEGE, PALAI.


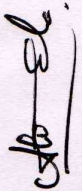





Attendance Sheet


SL. NO	NAME	16/05/2019		17/05/2019	
		FN	AN	FN	AN
01	DR. VARGHESE M.C	<i>VC</i>	<i>VC</i>	<i>VC</i>	<i>VC</i>
02	Prinle Jose	<i>PJ</i>	<i>PJ</i>	<i>PJ</i>	<i>PJ</i>
03	Dr. Saji Augustine	<i>Saj</i>	<i>Saj</i>		
04	Jobin Scaria	<i>JS</i>	<i>JS</i>	<i>JS</i>	<i>JS</i>
05	Dr. Susan Austin	<i>SA</i>	<i>SA</i>	<i>SA</i>	<i>SA</i>
06	Sr. Mini Thomas	<i>MT</i>	<i>MT</i>	<i>MT</i>	<i>MT</i>
07	Sr. Shine K.K	<i>SK</i>	<i>SK</i>	<i>SK</i>	<i>SK</i>
08	Rekha Mathew	<i>RM</i>	<i>RM</i>	<i>RM</i>	<i>RM</i>
09	Dr. Maya George	<i>MG</i>	<i>MG</i>	<i>MG</i>	<i>MG</i>
10	Roy Joseph	<i>RJ</i>	<i>RJ</i>	<i>RJ</i>	<i>RJ</i>
11	Binu Joseph	<i>BJ</i>	<i>BJ</i>	<i>BJ</i>	<i>BJ</i>
12	Dr. Mini Thomas	<i>MT</i>	<i>MT</i>	<i>MT</i>	<i>MT</i>
13	Sr. Saji George	<i>Saj</i>	<i>Saj</i>	<i>Saj</i>	<i>Saj</i>
14	Mein Raju	<i>MR</i>	<i>MR</i>	<i>MR</i>	<i>MR</i>
15	Shinu Joseph	<i>Shin</i>	<i>Shin</i>	<i>Shin</i>	<i>Shin</i>
16	Joby cejrae	<i>JC</i>	<i>JC</i>	<i>JC</i>	<i>JC</i>
17	Pras Jose	<i>Pras</i>	<i>Pras</i>	<i>Pras</i>	<i>Pras</i>
18	A.V. Sebastian	<i>AVS</i>	<i>AVS</i>	<i>AVS</i>	<i>AVS</i>
19	Alex George	<i>AG</i>	<i>AG</i>	<i>AG</i>	<i>AG</i>
20	Litbin Kinnichose	<i>LKB</i>	<i>LKB</i>	<i>LKB</i>	<i>LKB</i>
21	Rijo George	<i>RJG</i>	<i>RJG</i>	<i>RJG</i>	<i>RJG</i>
22	Benjith Xavier	<i>Benj</i>	<i>Benj</i>	<i>Benj</i>	<i>Benj</i>
23	Dr. Teji Thomas	<i>Teji</i>	<i>Teji</i>	<i>Teji</i>	<i>Teji</i>

**TWO DAY TRAINING PROGRAMME on PFMS EAT and DBT MODULE,
ORGANISED by IQAC, ST. THOMAS COLLEGE, PALAI.**

SL. NO	NAME & ADDRESS	CONTACT NUMBER	EMAIL ID	SIGNATURE
1.	Dr. SAJI AUGUSTINE; Asst. Professor Dept. of Physics, Deva Matha College	9949347969	saji.augustine@devamatha.ac.in	 16/5/19
2.	DR. VARGHESE M.C., Asst. Prof. DEPT. OF BOTANY, DEVA MATHA COLLEGE, KURAVILANGAD.	9142302060	varghese.mc@devamatha.ac.in	 16/5/19
3	Prince Jose, Technical Assistant Deva Matha College Kuravilangad	9496324127	prince.jose@devamatha.ac.in	 16/5/19
4.	Dr. Sunny Austin Asst Prof. St. Thomas College of Teacher Edu	9446204425	sunny.austin@gmail.com	 16/5/19
5	Sr. Mini Thomas Head Accountant St. Thomas College of Teacher Education Palai		mini2889@gmail.com	 16/5/19
6.	Sr. Sheri K.K, Typist St. Thomas College of Teacher Education Palai		shirini1997@gmail.com	 16/5/19
7	Dr. Maya George, Asst. Prof. Alphonsa College Palai	9747755179	mayarosegeorge@gmail.com	 16-5-19

SL. NO	NAME & ADDRESS	CONTACT NUMBER	EMAIL ID	SIGNATURE
8	Rekha Mathew Dept. of Physics Alphaomega College, Pala	9446968236	rekha@alphaomega @gmail.com	
9	Binu Joseph U.P. Poonjar Alphaomega Coll. Pala	944507896	binuacp@ gmail.com	
10	Roy Joseph Locks Alphaomega College, Pala Shinu Joseph LD Computer Assistant St. Thomas College, Dalai	9562957655	royablebinu@ gmail.com	
11	Shinu Joseph LD Computer Assistant St. Thomas College, Dalai	9446820962	Shinu@123@ gmail.com	
12	Joby Lynnai Library Assistant St. Thomas College, Ravelin	9497224992	Joby Lynnai 1978@ gmail.com	
13	Draco Jose Lab Assistant St. Thomas College, Palaru	9995883396	SARASWATHI@ Gmail.com	
14	Joby Suresh Guest Lecturer St. George's College Auvilam	8606495744	joby123@ gmail.com	
15	Benjith Daviel St. George's College Auvilam	960526809	benjithdaviel@ gmail.com	

SL. NO	NAME & ADDRESS	CONTACT NUMBER	EMAIL ID	SIGNATURE
16	Kyo George LDC St. George's College Armithura	9446810023	ljojgeorgearuvithura@gmail.com	
17	Alex George Assistant-Professor, St. Thomas College of Teacher Education, Palai A.V. Sebastian, T.S.	9447599631	Kavukathugalex@gmail.com	
18	St. Thomas College of Teacher Education, Palai	9447327706	alexkavunkal@gmail.com	
19	Dr. Mini Gramas Associate Professor B.K. College, Amalagiri.	9447355729	drminiobkc@gmail.com	
20	Mein Raju B.K. College, Amalagiri	7592896303	mein.raju12s@gmail.com	
21	Sr. Soji George Computer Assistant, BK college, Amalagiri	8281908483	ksr.mareena@yahoo.in	
22	Libin Kuziakose Asst. Prof. St. Thomas College Palai	9645260864	libinkuziakose@gmail.com	

SL. NO	NAME & ADDRESS	CONTACT NUMBER	EMAIL ID	SIGNATURE
23	Dr. Tejal Thomas Asst. Professor, St. Thomas College Pala	9744021359	tejalthomas@gmail.com	

St. Thomas College, Palai

Arunapuram P.O., Kottayam - 686 574, Kerala, India

College with Potential for Excellence recognized by UGC
NAAC Accredited (3rd Cycle) with A Grade (CGPA: 3.30) in 2015
www.stcp.ac.in; 04822-212317

One Day Workshop on
New Methodology of NAAC Accreditation
(UGC-CPE Sponsored)

Organized by
Internal Quality Assurance Cell (IQAC)
St. Thomas College, Palai



on

21 July 2018

Venue: College Auditorium



One Day Workshop on New Methodology of NAAC Accreditation

Aim and Scope

The National Assessment and Accreditation Council (NAAC) has brought in new spirit into its process of assessment and accreditation which is being adopted from July 2017. The revised process is more robust, objective, transparent and scalable as well as ICT enabled reducing the duration of accreditation process. In their quest for excellence, all the stakeholders, especially the Principals, IQAC Coordinators and Governing/Managing Council Members of every HEI are to be thoroughly aware of the Revised Accreditation Framework (RAF). This workshop organized by the Internal Quality Assurance Cell (IQAC) of St. Thomas College Palai aims to acquaint the participants with the NAAC's revised Quality Indicator Framework (QIF) for Affiliated Colleges.

The motto of IQAC of St. Thomas College Palai is *Learn from the Masters*. Accordingly, we are privileged to have an eminent expert for the day,

Mr. B. S. Ponmudiraj

Deputy Adviser, National Assessment and Accreditation Council (NAAC).

We cordially invite the Managers, Principals, IQAC Co-ordinators/Members of affiliated Arts and Science Colleges to attend the workshop.

Registration Fee: Rs. 300/-

PROGRAMME: (On 21/07/2018)

9.00-9.30 am	:	Registration
9.30 am	:	Inauguration H.E. Mar Jacob Muricken (Manager, St. Thomas College Palai)
10.00-11.15 am	:	Technical session I
11.15-11.45 am	:	Tea/Coffee break
11.45 am-1.00 pm	:	Technical session II
1.00 pm	:	Lunch
2.00 pm – 3.30 pm	:	Interactive session Tea/Coffee

Dr. Ison V. Vanchipurackal

Organizing Secretary
Mob: 9446126926
E-mail: isonv@rediffmail.com

Dr. Sunil C. Mathew

Co-ordinator, IQAC
Mob: 9495109316
E-mail: sunilmathew@gmail.com

Rev. Dr. James John

Principal

Palai,
09-07-2018.

Note: (i) Those who wish to participate may kindly register their names with the IQAC Co-ordinator/ Organizing Secretary on or before 18-07-2018.

(ii) Accommodation may be arranged on payment basis.

WOMEN'S FORUM

MISS ST. THOMAS

Miss St. Thomas contest was organized by the Women's Forum on 25th March 2019 and Sinimol Antony (II MA Politics), Linet Maria K (II PG Malayalam) and Punya M(I PG Malayalam) secured first, second and third prizes respectively.

**FEMINIST RESEARCH METHODOLOGY****INVITED TALK**

An invited talk on “Feminist Research Methodology” was delivered by Dr. Mini Sukumar, HOD, Dept of Women's Studies, University of Calicut on 22nd March 2019.



NATIONAL STATISTICS DAY CELEBRATIONS



National Statistics Day celebrated on 29 June 2018. Mrs. Sibil Jose, Assistant professor, St George College Aruvithura was the chief guest.

INTERNATIONAL WORKSHOP ON DESIGN AND STATISTICAL ANALYSIS OF CLINICAL STUDIES



As part of the diamond jubilee celebrations of the Department, an international workshop on Design and Statistical Analysis of Clinical Studies was conducted during 7-11 January 2019. The goal of this workshop was to provide a thorough review of

statistical issues related to the design, management and statistical analysis of clinical studies. Ionut Bebu and Barbara Braffett, of the Department of Epidemiology and Biostatistics, George Washington University, USA were the resource persons.



2017-18

REPORT

KSCSTE Sponsored Two Days National Seminar on Emerging Trends in Nanocomposites

Ref No. SSW/033/2017/KSCSTE

The two days National Seminar on 'Emerging Trends in Nanocomposites' was conducted by Research and Postgraduate Department of Chemistry, St. Thomas College, Palai on 12th and 13th October 2017. There were four lecture sections, a keynote address, paper presentation session, and poster presentation session during this seminar. The resource persons of this seminar were Dr. Kuruvilla Joseph (Dept. of Chemistry, Indian Institute of Space Science and Technology, Thiruvananthapuram), Dr. S Abraham John (Dept. of Chemistry, Gandhigram Rural Institute and Deemed University, Dindigul, Tamilnadu), Dr. Jinu Jacob George (Dept. of Polymer Science and Rubber Technology, CUSAT) and Dr. Josmin P Jose (Dept. of Chemistry, Mar Thoma College, Thiruvalla). There were 160 participants including teachers, research scholars and students from various institutions attended the programme. The two day National seminar was inaugurated by Dr. Kuruvilla Joseph, Head of Chemistry division and Dean, Indian Institute of Space Science and Technology, Thiruvananthapuram.

The paper and poster presentation sessions were conducted. The citation certificates and cash awards for the first and second positions for the best paper and poster presentations were given to the winners.







ST. THOMAS COLLEGE, PALA

College with Potential for Excellence - UGC (2010 and 2015)
Re-accredited with A Grade by NAAC (2015)

National Seminar on 'Emerging Trends in Nanocomposites'



Dr. Kuruville Joseph inaugurates the national seminar

A National Seminar on 'Emerging Trends in Nanocomposites' was organised by the Department of Chemistry, on 12 and 13 October 2017. There were four lecture sessions, a keynote address, a paper presentation session, and a poster presentation session during this seminar. The resource persons of this seminar were Dr. Kuruville Joseph (Dept. of Chemistry, Indian Institute of Space Science and Technology, Thiruvananthapuram), Dr. S. Abraham John (Dept. of Chemistry, Gandhigram Rural Institute and Deemed University, Dindigul, Tamil Nadu), Dr. Jinu Jacob George (Dept. of Polymer Science and Rubber Technology, CUSAT) and Dr. Josmin P. Jose (Dept. of Chemistry, Mar Thoma College, Thiruvalla). There were 160 participants including teachers, research scholars and students from various institutions who attended the programme. The two-day National Seminar was inaugurated by Dr. Kuruville Joseph,

Head of Chemistry Department and Dean, Indian Institute of Space Science and Technology, Thiruvananthapuram, at a meeting presided over by H. E. Mar Joseph Muricken, Auxiliary Bishop of Palai and Manager of the College.

Paper and poster presentation sessions were also conducted. Citation certificates and cash awards for the first and second positions for the best paper and poster presentations were presented to the winners. Dr. Sajeev Martin George, Asst. Professor, Department of Chemistry, was the Co-ordinator of the national seminar.



Dr. Sajeev Martin George
Co-ordinator

National Workshop on 'High Performance Statistical Computing Using R'



Dr. A. K. Singh, Scientist, DST, Govt. of India, inaugurates the workshop

A national workshop on 'High Performance Statistical Computing Using R' was organized by the Department of Statistics during 6-7 January 2018. The workshop was inaugurated by Dr. A. K. Singh, Scientist, Department of Science and Technology (DST), Govt. of In-

dia. There were 43 participants from various institutions. Dr. George Ostrouchov (University of Tennessee, USA), Dr. Nagaraj Neerchal (University of Maryland) and Dr. Andrew Raim (Census Bureau, USA) were the resource persons.



Dr. George Ostrouchov, Dr. Nagaraj Neerchal and Dr. Andrew Raim lead the national workshop

Workshop on Official Statistics and Opportunity in Government Sector

A one-day workshop on 'Official Statistics and Opportunity in Government Sector', sponsored by Ministry of Statistics and Program Implementation (MoSPI), Govt. of India, was organised by the Department of Statistics on 16 February 2018. Mr. Saji George I.S.S. and Mr. Vikash Kumar Dubey I.S.S were the resource persons.



Mr. Saji George ISS and Mr. V. K. Dubey ISS speaks at the workshop

2016-17

Second International Conference on Materials Science and Technology- ICMST 2016

Department of Physics organized Second International Conference on Materials Science and Technology (ICMST 2016) on 05-08 June 2016. ICMST 2016 provided a platform for academicians, scientists and researchers to exchange and share their experiences and research findings in various areas of Materials science, and to discuss the practical challenges encountered and solutions adopted.

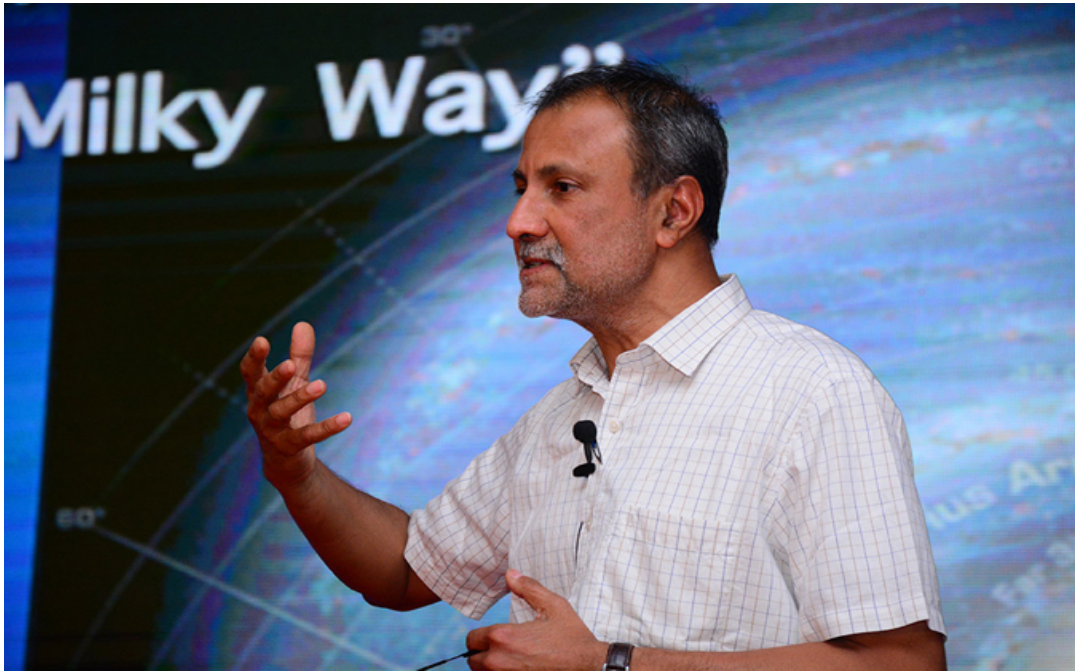
The aim of the 2016 International Conference on Materials science and Nanotechnology (ICMST 2016) was to bring together National and International communities (students, scientists, engineers and stake holders from academia, government laboratories, industry and other organizations) working in the field of Materials science and technology to discuss new and exciting advances in the field.

The conference was inaugurated by Prof. P J Kurien, the Honourable Deputy Chairman of Rajyasabha in the presence of Nobel Laureates Prof. Ada E Yonath and Prof. Klaus von Klitzing, His Excellency Mar. Joseph Kallarangattu, Dr. Sunny Joseph, Dr. Michael Augustine, Dr. Ginson P Joseph and Prof. Augustine J Edakkara.



Prof. PJ Kurien, Deputy Chairman of Rajya Sabha lights the ceremonial lamp at the inaugural function of ICMST-2016

Technical Sessions of the conference started at 5 PM on 5-6-2016 Sunday, with the public lecture of Prof. Ravi Subrahmanyan (Director, Raman Research Institute Bangalore) on “Cosmic Dawn at the end of the Dark Ages”



Prof. Ravi Subrahmanyan (Director, Raman Research Institute Bangalore)

It was for the first time in the history of St Thomas college Palai that two Nobel laureates visiting the institution. Prof. Ada E Yonath (Nobel laureate, Weizmann institute, Rohovot, Israel) and Prof. Klaus von Klitzing (Nobel laureate, Max Planck Institute, Fur Festkorperforshung, Germany) showered their experience as well as expertise in the field of Materials science research through their plenary lectures as well as interaction sessions with the students.



Prof. Ada E Yonath(Nobel laureate, Weizmann institute, Rohovot, Israel)



Prof. Klaus von Klitzing (Nobel laureate, Max Planck Institute, Fur Festkorperforschung, Germany)

Along with the lectures of Nobel laureates and public lecture, ICMST 2016 witnessed the plenary talks of Prof. Norbert Kroo (Presidential Advisor, Hungarian Academy of Sciences, Hungary), Prof. Dr. Katharina Al-Shamery (Carl von Ossietzky University, Oldenburg, Germany), Dr. John Philip (Head, SMARTS&RTS, Metallurgy and Materials Group, IGCAR-Kalpakkom, India), Prof. Spiros H Anastasiadis (Director, Institute of Electronic Structure and Laser, Greece), Prof. Dr. Peter Baeuerle (Director, Institute of Organic Chemistry II and Advanced Materials, Ulm University, Germany) Prof. Reji Philip (Light and Matter Physics Group, RRI- Bangalore, India), Prof. Alison Downard (MacDiarmid Institute for Advanced Materials and Nanotechnology, University of Canterbury, New Zealand) and Prof. Manuel Filipe Pereira da Cunha Martins Costa (University of Minho, Portugal).

PLENARY SPEAKERS



Prof. Alison Downard



Prof. Norbert Kroo



Prof. Dr. Katharina Al-Shamery



Prof. Reji Philip



Prof. Spiros H Anastasiadis



Dr. John Philip



Prof. Dr. Peter Baeuerle

The keynote lectures were delivered by Dr. Reji John (Head, Materials Engineering Division DRDO, NPOL, India), Dr. Lisa George (Madison Area Technical College, Madison, USA), Dr. Radhakrishna Prabhu (Robert Gordon University Aberdeen, United Kingdom), Prof. Krish Bharuth-Ram (University of KwaZulu-Natal Durban, South Africa), Dr. PK Panda (CSIR National Aerospace Laboratories Bangalore, India), Dr. Sandeep Kumar (Raman Research Institute Bangalore), Prof. Manickam Mahendran (Thiagarajar College of Engineering, Madurai, India), Prof. Dr. Mohd Kamarulzaki Mustafa (Deputy Dean of R&D, Universiti Tun Hussein Onn, Malaysia), Prof. M Padmanabhan (Amrita University Kerala, India), Dr. CV Tomy (Head, Dept. of Physics, IIT Bombay) and Prof. Constantinos Simserides (Dept. of Solid State Physics, National and Kapodistrian University of Athens, Greece).

The invited speakers were Dr. Pratap Kollu (University of Cambridge, United Kingdom), Dr. Sukhendu Mandl (IISER-Trivandrum, India), Dr. N. Vijayan (National Physical Laboratory - New Delhi, India), Dr. Bonige. Kishore Babu (Andhra University Andhra

Pradesh, India), Dr. Amal Kumar Das (Department of Physics, IIT Kharagpur, India), Prof. Dr. Sanjay Dhole (University of Pune, India), Dr. Jai Singh (Dr.H.S.Gour Central University, Sagar, M.P, India), Dr. Madhavan Jacob (Loyola College Chennai, India), Prof. Rajan Jose (Faculty of Industrial Sciences & Technology, Universiti Malaysia Pahang, Malaysia), Dr. Diby Paul (Dept. of Environmental Engineering, Konkuk University, SEOUL, South Korea) Dr. Kishore Sridharan (NIT- Karnataka) and Dr. Ajayan Vinu (Professor of Nanomaterials, University of South Australia).

There were ten plenary lectures, twelve keynote lectures, Eight invited talks, two hundred oral presentations and two hundred and sixty poster presentations in this event.

Participants include scientists from world renowned research centers, university and college professors and research scholars.



Audience observing a plenary talk- A close look of the Auditorium



Poster presentation

ICMST-2016 provided exposure to a wide spectrum of areas of research in Nanoscience, Thin film technology, Crystallography, smart materials, polymer and rubber technology, energy storage devices and superconductivity. The conference was a global meet of young researchers working in various fields of Materials science. The conference also provided a non pareil platform for the young scientists and researchers in India to interact with leading international experts. It has provided an excellent opportunity for the participants to involve themselves in extremely fruitful interpersonal exchange of ideas, perspectives and outlooks. Department of Science and Technology (DST), University Grants Commission (UGC), CSIR, DRDO, BRNS, MNRE, INSA, KSCSTE and ISRO were the sponsors of the event.

Dr. Michael Augustine- Head of the Physics Department, Dr. Ginson P Joseph,- Convener of ICMST-2016, Dr. Sunny Mathew and Prof. Augustine J Edakkara-Co-conveners, other teachers of the department and students welcomed the participants with high enthusiasm and entertained them with warm hospitality and dazzling array of cultural programs.



ST. THOMAS COLLEGE, PALA

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Newsletter

VOL. XIX NO.1 JUNE 2017 2016 - 2017

Principal's Message

No Solitaire, Only Teamploy



Every eventful academic year is an important milestone in the annals of the academia. The year 2016-17 stands out with its glittering academic performance and infrastructural development. We have witnessed a quantum leap in respect of augmentation in infrastructural facilities with the inauguration of the Integrated Sports Complex. It includes a vast auditorium that seats over a thousand people. Construction of an air-conditioned conference hall/assembly room in the ground floor of the sports complex is well underway.

The greatest academic event of the year, that has taken centre stage among activities of the year, was the International Conference on Materials Science and Technology organised by the Dept. of Physics. St. Thomas College was really blessed with the esteemed presence of two Nobel laureates in Physics Prof. Klaus von Klitzing (Germany) and Prof. Ada E. Yonath (Israel), both of them highly distinguished in their fields of research. We are, as reported, the first college in the state to have the rare privilege of having two Nobel laureates as resource persons for the same event. The conference was also attended by eminent scientists and technocrats from abroad alongside experts from various Indian universities and colleges. Members of the Physics faculty of our college, especially Dr. Michael Augustine, HoD and Dr. Ginson P. Joseph, convener of the conference, deserve special commendation.

The performance of our students in academics and sports this year has been really creditable. There was a general blossoming out in studies, sports and extra curricular activities as evidenced by the ranks, grades, prizes and trophies won by our students. Everything went fair, there was no bad blood, no gravitation toward rude behaviour or chicanery, and the peace and harmony that prevailed in the campus enabled us to reap a good harvest in the academic field. I thank the teachers for their wholehearted support and committed teaching, the non-teaching staff for their co-operation and devoted work, the students for their diligence and participation, the parents for their caring and concern and the management, university, the UGC and the Government for their guidance and patronage. Our patron H. E. Mar Joseph Kallarangatt, Bishop of Palai and our Manager H. E. Mar Jacob Murickan, Auxiliary Bishop of Palai have been pillars of strength and beacons of hope for this institution. Our academic and other achievements bear witness to Almighty God's infinite mercy. Right from the moment of conceiving the idea of establishing an institution of higher learning by our founding fathers, God has showered his choicest blessings upon us, all through these academic decades.

I take this opportunity to thank everyone for their unstinting support and co-operation in the administration of this mighty institution. The responsibilities I shoulder in his institution are exciting, enriching and also challenging. Let us rise in the academic heavens as one, as a single entity endowed with a sense of solidarity and purpose.

I wish all success to our great institution and each one of its stakeholders. God bless you!

Dr. Joy George

Second International Conference on Materials Science and Technology (ICMST 2016) Conducted

Nobel Laureates Prof. Ada E. Yonath and Prof. Klaus von Klitzing deliver plenary talks

As a sequel to the first International Conference on Materials Science and Technology (ICMST 2012), the Department of Physics conducted the second ICMST from 5 to 8 June 2016 with the participation of around 550 scholars and delegates from 20 countries. The conference opened with a public lecture by Prof. Ravi Subramanian, Director of Raman Research Institute, Bangalore, on 5 June 2016. The formal inauguration of ICMST 2016 was conducted on 6 June 2016 by Prof. P. J. Kurian, Honourable Deputy Chairman of the Rajya Sabha, in the presence of the Nobel laureates Prof. Ada E. Yonath (Israel) and Prof. Klaus von Klitzing (Germany). H. E. Mar Joseph Kallarangatt, Bishop of Palai and Patron of the College, presided over the inaugural function. Principal Dr. Sunny Joseph felicitated. Dr. Michael Augustine (Head, Dept. of Physics) welcomed the gathering and Dr. Ginson P. Joseph (Convener)



Prof. P. J. Kurian, Hon'ble Deputy Chairman of the Rajya Sabha, inaugurates ICMST 2016

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SEMINARS, CONFERENCES, WORKSHOPS AND LECTURES

National Seminar on Translation



Principal Dr. Sunny Joseph inaugurates the national seminar

As part of Hindi Translation and Documentation Programme, a one-day National Seminar was organised by the Department of Hindi on the topic 'The Prospects of Translation in Multimedia' on 22 February 2017. The chief resource persons were Dr. Seema Chandran, Assistant Professor, Central University, Kasaragode and Dr. Herman P.G., Assistant Professor, Calicut University. The purpose of the seminar was to inculcate research aptitude and employability skills among the students.

National Workshop on Experimental Physics

A national level workshop on 'Experimental Physics' for college teachers was organized by the Department of Physics from 29 June to 2 July 2016. 36 teachers from all over the country participated in the programme. The theoretical framework of the experiments was discussed on the first day of the workshop, followed by their hands-on training on the remaining 3 days. The workshop was conducted in association with the Academy of Physics Teachers Kerala and co-sponsored by Mahatma Gandhi University, Kottayam. Dr. Ison V. Vanchipurackal was the resource person and organizing secretary of the workshop.



College Physics teachers who attended the workshop

2015-16

METHODOLOGY

It would be delivered through combination of:
1. Interactive Lectures & Discussions
2. Case studies / exercises/Hands-on Practice

RESOURCE PERSONS

Dr. Daniel Lazar [Pondicherry University]
Dr. Simon Thattil [Kerala University]
Dr.R.Kasilingam [Pondicherry University]
Dr. Sunil Paul [Madras School of Economics]
Dr. Anand B [Central University of Rajasthan]
Dr. Joji Alex [Rajagiri School of Business Studies]
Dr. Santhosh Kumar S [St. Peter's College Kolenchery]

WHO SHOULD ATTEND?

Faculty Members & Research Scholars in the areas of Commerce, Management & Economics and M.Com, MBA, M.A. Economics Students who are interested in research and teaching.

[Participants are requested to bring their own Laptops, if possible]

CERTIFICATE OF PARTICIPATION

The participants will be issued a "Certificate of Participation" on the conclusion of the program.

REGISTRATION

Only 60 seats are available. Registration shall be made on "first come, first served" basis. Please note that no refund of fees shall be made later on. The registration form duly filled in along with participation fee should reach the convener by **20th August 2015**.

PARTICIPATION FEES

The workshop is being conducted on non-residential basis. The fee for research scholar/faculty is Rs. 750/- and for M.Com or MBA or MA Economics Student, it is Rs. 250/- which include Course kit, Lunch, Tea and Snacks. Participation fee should be paid by DD drawn in favour of "HOD, Dept. of Commerce, St. Thomas College, Pala" payable at Pala. It can also be paid in cash.

ORGANIZING COMMITTEE

H.E. MAR. Jacob Muricken [Manager]
Msgr Dr. Joseph Kollamparambil [Pro-Manager]
Dr. Sunny Joseph [Principal]
Rev. Dr. James John [Vice Principal]
Rev. Fr. Mathew Kurian Kavanadimalayil [Bursar]
Prof. K.V. John [Head of the Department]
Prof. Bobby Simon [Asst. Professor]
Prof. Tejil Thomas [Asst. Professor]
Prof. Binoy Chacko [Asst. Professor]
Prof. James Varghese [Asst. Professor]
Prof. Jinu Mathew [Asst. Professor]

Convener

Dr. Babu Jose
Assistant Professor, Dept. of Commerce
St. Thomas College, Pala, Arunapuram P.O.
Kottayam (Dt), Kerala - 686574
Mob: 9446680107, Email: babujoset@gmail.com
commercestcp@gmail.com

NATIONAL WORKSHOP ON RESEARCH METHODOLOGY

For Commerce, Management & Economics
Sponsored by UGC

Organised by

DEPARTMENT OF COMMERCE
ST. THOMAS COLLEGE, PALA
Reaccredited by NAAC with A Grade (CGPA 3.30)
KOTTAYAM DIST, KERALA -686574



16-18 September 2015

VENUE

LIBRARY HALL, ST. THOMAS COLLEGE PALA

ABOUT THE COLLEGE

Founded in 1950 by H.E. Mar Sebastian Vayalil, the first Bishop of Catholic Eparchy of Palai, St. Thomas College journeys on to be a Centre of Excellence through the formation of young people empowered to create a bright future for themselves and others, irrespective of caste, creed, religion or language through dissemination of knowledge, skills and noble values. Being a pioneer in the higher education scenario of Kerala, it has to its credit decades of distinguished service in the field of advanced education, sending out many under graduate and postgraduate maxima cum laude to carve out their destinies in diverse spheres. UGC – NAAC has accredited the college at A level with commendable index point in 2015. Currently the college expands its wings of knowledge through twenty one Departments out of which ten are well established research centres.

DEPT. OF COMMERCE

Being an unbeatable pool of resources in the arena of business education, the Research and Postgraduate Department of Commerce has an impressive and dynamic history of more than five decades which were solely dedicated 'to be a centre of excellence in business studies by upholding moral and ethical values'. Apart from offering Certificate,

Diploma, Undergraduate and Postgraduate programmes in commerce and allied subjects, the department excels among other research centres in Arts and Science colleges of the state of Kerala with a good number of doctoral degrees produced under the supervision of six research guides with remarkable experience and more than three dozens of research scholars. Active involvement of its teaching fraternity in research and the dissemination of know-how is commended splendidly and it is currently noted for its efforts for promoting genuine research.

NEED OF THIS WORKSHOP

The workshop aims to explore the basic dimensions of research and the need for scholars to rethink the assumptions that underline historic paradigms of research in the field of Commerce, Management and Economics. It is designed to provide participants with hands-on approach to conduct research. On completion of the workshop, participants would develop the skills to review the literature, develop hypotheses, frame research design, identify sampling techniques and comprehend the role and relevance of the tools for data collection and analysis. The three- day workshop will be exposing the participants to theoretical input on qualitative research techniques. It is a platform which will give the young researchers an opportunity to meet many dynamic researchers from different Universities.

PROGRAMME COVERAGE

DATE	16.09.2015	(WEDNESDAY)	RESOURCE PERSON
TIME	SESSION	TOPIC	
08.00 am - 09.00 am		Registration	
09.30 am - 10.15 am		Inauguration	
10.15 am - 10.30 am		Pre-session Tea Break	
10.30 am - 12.00 pm	Technical Session - I	Research: Basics	Dr. Simon Thattil University of Kerala
12.00 pm - 01.30 pm	Technical Session - II	Research Trends in Commerce & Management	Dr. Joji Alex RCBS- Kochi
01.30 pm - 02.00 pm		Lunch Break	
02.00 pm - 03.30 pm	Technical session - III	Review of Literature and Identification of Research Gap	Dr. Daniel Lazar Pondicherry University
03.30 pm - 05.00 pm	Technical Session - IV	Formulation of Hypothesis and Testing of Hypothesis including Goodness of fit	

DATE	17.09.2015	(THURSDAY)	RESOURCE PERSON
TIME	SESSION	TOPIC	
09.00 am - 10.30am	Technical Session - V	Data and Data Collection (Sampling Concepts and Considerations)	Dr. Santhosh Kumar S. St. Peter's College Kolenchery
10.30am - 01.30pm	Technical Session - VI	Identification of Models to be tested and deciding the conceptual framework	Dr. R. Kasilingam Pondicherry University
01.30pm - 02.00pm		Lunch Break	
02.00pm - 03.30pm	Technical Session -VII	Preparation and validation of Questionnaire (SPSS)	Dr. R. Kasilingam Pondicherry University
03.30pm - 05.00pm	Technical Session -VIII	Analysis of Primary Data: Univariate and Multivariate (SPSS)	

DATE	18.09.2015	(FRIDAY)	RESOURCE PERSON
TIME	SESSION	TOPIC	
09.00 am - 10.30am	Technical Session -IX	Introduction to Time Series Data	Dr. Sunil Paul Madras School of Economics
10.30am - 12.00pm	Technical Session - X	Analysis of Time Series Data with E-views	Dr. Anand B Central University of Rajasthan
12.00pm - 01.30pm	Technical Session -XI	Analysis of Panel Data	Dr. Sunil Paul Madras School of Economics
01.30pm - 02.00pm		Lunch Break	
02.00pm - 03.30pm	Technical Session -XII	Analysis of Cross Sectional Data	Dr. Anand B Central University of Rajasthan
03.30pm - 05.00pm	Valedictory Session		

Research Methodology Workshop
(Sponsored by UGC)
(For Commerce, Management & Economics)



By

Department of Commerce
St. Thomas College, Pala
Kottayam Dist, Kerala -686574

16th – 18th September 2015

**Three Day UGC Sponsored National Workshop on Research Methodology for Commerce,
Management and Economics**

16-18 September 2015, Department of Commerce, St. Thomas College, Pala

Three Day UGC Sponsored National Workshop on Research Methodology for Commerce, Management and Economics was a very effective and goal oriented programme. The organizing committee was formed four months before and it functioned effectively. The programme was organized in eight sessions which contained Inauguration and Valedictory functions. Six technical sessions were handled by experts from outside and inside Kerala. The programme was inaugurated by Dr. Sheena Shukur, Honorable Pro- Vice chancellor, Mahatma Gandhi University, Kottayam and the session was presided over by the college Principal, Dr.

Sunny Joseph. First Day sessions were handled by Dr. Gabriel Simon Thattle, Professor in Commerce, Kerala University, on the basis of research and he inspired the research scholars and teachers to do genuine research with apt methodology. He spent around two hours and this session was so valuable for the participants. Dr. Joji Alex, Associate professor in Management from Rajagiri Centre for Business Studies, Kochi handled the second session on the basics and importance of business and management research. It was really another dimension of the first session which helped the participants to get clarity on many aspects especially on commerce and management area. Dr. Daniel Lazar, Associate professor in Finance, Pondicherry University was the resource person for the third session on review of literature, research gap and collection of data. This session was so useful to the beginners and participants really appreciated the session. On the second day, the fourth session was handled by Dr. Santhosh Kumar, Associate professor in Commerce, St. Peters College, Kolencherry, Kerala on the topic sample design and data collection. He made a lot of practical example with learner centered approach. After that the entire day was handled by Dr. Kasilingam, Associate Professor in Management, Pondicherry University on the analysis of the primary data by using SPSS. It was really an enterprising session, and the researchers got enough time to clarify their doubts and the practical sessions enabled them to handle the software and managing primary data. On the last day, Dr. Sunil Paul, from Madras School of Economics and Dr. Anand from Central University of Rajasthan, experts in secondary data and econometrics handled the sessions. Those were so advanced sessions and the participants got a time to think on these sophisticated steps in research area of Commerce, Management and Economics. Dr. K.K. Jose, Professor in Statistics, Central University of Rajasthan was the chief guest for the valedictory session of the programme.

The college and the Department had a good opportunity to make a common platform to the great researchers, Academicians, teachers and students to share their views and knowledge in various aspects of research. Standard workshop materials, conference kit, timing of the sessions, quality of the resource persons, food and accommodation, Travelling facility, technological ambience in the training sessions etc were effectively undertaken by the Department. Among the 83 participants, 64 were out station participants. 3 researchers were from outside Kerala, among them two gents from Tamil Nadu and One lady from Hyderabad. Among those 64 participants 61 were teachers cum researchers and 3 were students. Among the 19 participants from the college, 10 were post graduate students and 9 were teachers. The outside participants were provided with free of cost accommodation, travelling and other facilities. This programme was really successful both academically and non- academically. The evaluation of the entire sessions and overall rating of the programme were included in the workshop proceedings. Each session was evaluated by the participants and their comments were taken as serious suggestion for improvement in future programme. Each participant was given duty leave sanctioned by the Director, College Development Council, Mahatma Gandhi University , Kottayam.

UGC-sponsored Workshop on Research Methodology



Dr. Sheena Shukkur, Hon'ble Pro Vice Chancellor, Mahatma Gandhi University, inaugurates the workshop.

A three-day UGC- sponsored Workshop on Research Methodology for Commerce, Management and Economics streams was organised by the Department of Commerce during 16-18 September 2015. The workshop was aimed at exploring the basic dimensions of research and the need for scholars to rethink the assumptions that underline historic paradigm of research in these fields. The workshop was inaugurated by Dr. Sheena Shukkur, Hon'ble Pro-Vice Chancellor, Mahatma Gandhi University, Kottayam at a meeting presided over by Dr. Sunny Joseph, Principal. Dr. Gabriel Simon Thattil (Professor, University of Kerala) and Dr. Daniel Lazar (Associate Professor, Pondicherry University) offered felicitations. Prof. K.V. John, Head of the Department, welcomed the gathering and Dr. Babu Jose, Convener, proposed the vote of thanks.

National Workshop on Statistics

A two-day National Workshop on 'The Role of Official Statistics in National Development and Career Opportunities in Statistics' was organised by the Department of Statistics on 21 & 22 August 2015. Dr. T. C. A. Anant, Chief Statistician of India cum Secretary to the Ministry of Statistics and Programme Implementation, Govt. of India, and Shri. G. S. N. Murthy, Deputy Director General, National Statistical Systems Training Academy (NSSTA) were the resource persons. This year's winners of National Statistics Day 2015 essay writing competition were felicitated on the occasion.



Dr.T.C.A. Anant, Chief Statistician of India cum Secretary to the Ministry of Statistics and Programme Implementation, speaks at the workshop

ST. THOMAS COLLEGE, PALA

COLLEGE WITH POTENTIAL FOR EXCELLENCE - UGC (2010 and 2015)

Workshop on the Use of Technology in Teaching and Administration

A one-day workshop on the 'Efficient Use of Technology in Teaching and Administration' was organized by the Internal Quality Assurance Cell (IQAC) of the College on 3 June 2015. Dr. Babu Sebastian, Hon'ble Vice Chancellor, Mahatma Gandhi University, Kottayam, inaugurated the workshop and delivered the key-note address. He spoke about the '5 waves' of information technology which are sweeping across the world and affecting our daily lives. Dr. Ison V. Vanchipurackal, Assistant Professor, Department of Physics, presented a PowerPoint on the topic 'ICT Facilities at St. Thomas College, Pala: Resources, Opportunities and Challenges'.



Dr. Babu Sebastian, Hon'ble Vice Chancellor, Mahatma Gandhi University, inaugurates the workshop

Rev. Dr. Mathew Maleparampil Memorial Lecture

The Principals' Council of Kerala has instituted a Memorial Lecture in honour of late Rev. Dr. Mathew Maleparampil, who served as the Principal of St. Thomas College, Pala (2001-2006) and the General Secretary of All Kerala Private College Managements Association. The inaugural lecture was delivered by Dr. Babu Sebastian, Hon'ble Vice Chancellor, Mahatma Gandhi University, Kottayam, on the topic 'Values in Education' on 13 October 2015. The programme was attended by functionaries of the Principals' Council, and All Kerala Private College Managements Association, and teachers of the College.



Dr. Babu Sebastian, Hon'ble Vice Chancellor, Mahatma Gandhi University, delivers the memorial lecture

Workshop on Financial Education

A workshop on 'Financial Education for Young Investors' was organized by the Dept. of Economics on 17 June 2015. Dr. Sunny Joseph, Principal, inaugurated the workshop and Sri. Amod Mathew, Certified Trainer, SEBI, was the chief resource person. Prof. Joji Jacob welcomed the gathering and Sri. Emil Mathew Binny proposed the vote of thanks.



Principal Dr. Sunny Joseph inaugurates the workshop

Invited Talk on 'Hindi Language: Challenges and Opportunities'

For long, it is a healthy practice of the Department of Hindi to invite eminent persons from North India to deliver speeches on relevant and contemporary topics. The major aim of this venture is to provide first hand information to the postgraduate students regarding the slang, accentual features etc. of the people from the Hindi belt. In accordance with the said practice, Dr. R. B. Singh, noted Hindi scholar from Ayodhya, U.P. was invited to the Department on 29 February 2016 to deliver a talk on 'Hindi Language: Challenges and Opportunities'. In his speech Dr. R. B. Singh exhorted the teaching as well as the student community to be ready to take extra pains to propagate Hindi in the age of globalization, in order to maintain the unity and integrity of the nation. Dr. V.V. Georgekutty Vattoth, Head of the Department, welcomed the gathering and Dr. P.D. George proposed the vote of thanks.



Dr. R.B. Singh delivers the invited talk

ST. THOMAS COLLEGE, PALA

COLLEGE WITH POTENTIAL FOR EXCELLENCE - UGC (2010 and 2015)

National Workshop on Biostatistical Methods in Clinical Research

A National Workshop on Biostatistical Methods in Clinical Research was organised by the Department of Biostatistics on 26 and 27 February 2016 in collaboration with ISMS. The resource persons were Dr. Anil C. Mathew, Professor of Biostatistics at PSG Institute of Medical Sciences and Research, Coimbatore and Dr. B. Anilkumar, Asst. Professor of Biostatistics at NIMHANS, Bangalore.

Workshop on R Programming and SAS

A Workshop on R Programming and SAS was organised by the Department of Biostatistics on 25 and 26 January 2016. Dr. Tomy Sebastian, Asst. Professor of Biostatistics, CMC, Vellore and Mr. Binil M. George, Senior Programmer, TCS, Bangalore, were the resource persons.

INVITED LECTURES DELIVERED BY EXPERTS

DEPARTMENT OF POLITICS

1. **Dr. T. V. Muralivallabhan**, former Principal, SVR NSS College, Vazhoor, delivered an invited talk on the topic "Importance of Environmental Protection" on 5 June 2015.



Dr. T. V. Muralivallabhan delivers the lecture

2. **Dr. T. V. Paul**, McGill University, Montreal, Canada, delivered the Erudite Lecture of the Kerala State Higher Education Council on the topic 'How to Achieve Stable Peace in South Asia'.



Dr. T. V. Paul delivers the lecture

DEPARTMENT OF BIOTECHNOLOGY AND APPLIED MICROBIOLOGY

Dr. Jose Sebastian, Stanford University, USA, delivered an invited lecture on 'CRISPR Gene Editing Technique and its Importance in Plants' on 23 March 2016.



Dr. Jose Sebastian delivers the lecture

DEPARTMENT OF STATISTICS

Dr. Jom Jacob, Deputy Director, Statistics and Planning Division, Rubber Board, gave a talk on 'Understanding Commodity Market Dynamics' on 21 January 2016.



Dr. Jom Jacob delivers the lecture

DEPARTMENT OF ENGLISH

1. **Dr. Rangarajan Gopalakrishnan**, Rajagiri School of Business Studies, delivered an invited lecture on 'Globalization and Honing of Indian Language Skills' on 19 October 2015.

2. **Dr. Krishnan Unni P.**, Delhi University, delivered an invited talk on the topic 'Derrida and Deleuze' on 19 November 2015.



Dr. Rangarajan Gopalakrishnan delivers the lecture

3. **Dr. C.C. Thomas**, former Professor, St. Berchmans College, Changanassery, delivered an invited lecture on 'Shakespeare: Yesterday, Today and Tomorrow' on 26 November 2015.

DEPARTMENT OF BIostatistics

Dr. T. C. A. Anant, Chief Statistician of India cum Secretary, Ministry of Statistics and Programme Implementation, Govt. of India, delivered an invited lecture on 'Indian Statistical System' on 22 August 2015.

Workshop on Biostatistical Methods in
Clinical Research on 26-27 Feb 2016

Sl. No.	Name & Address	Designation/class	Signature
1.	Nisha Kurian Dept of Community Medicine PIMS & RC, Tiruvalla email: bennisha2000@yahoo.com.	Asst Professor	<u>Nisha</u> paid Rs 1000 ✓
2.	Joshni George Research Scholar Dept. of Statistics St. Thomas College, Pala	Research Scholar	<u>Joshni</u>
3.	Beteena Kurian Dept. of Statistics St. Thomas College, Pala	Research Scholar	<u>Beteena</u>
4.	Sophia P. Thomas Dept. of Statistics St. Thomas College, Pala	Research scholar	<u>Sophia</u>
5.	Reshma Regburathoo Dept. of Biostatistics St. Thomas college, Pala	II Msc Biostatistics	<u>Reshma</u>
6.	Neelhu Benny Dept. of Biostatistics St. Thomas College Pala.	II MSc. Biostatistics	<u>Neelhu</u>
7.	Divyansu Chandran Dept. of Biostatistics St. Thomas college Pala.	II MSc. Biostatistics	<u>Divyansu</u>
8.	Nifty Tomy Dept. of Biostatistics St. Thomas College Pala	II Msc Biostatistics.	<u>Nifty</u>

9.	Anju . S. Dept of Biostatistics ST Thomas College , Palai	II MSc Biostatistics	<u>Anju</u>
10.	Anju S. Kalapura Dept. of Biostatistics St. Thomas College, Palai	II nd M.Sc Biostatistics	<u>Anju</u>
11.	Sona Antony Dept. of Biostatistics St. Thomas college, Pala	II M.Sc Biostatistics	<u>Sona</u>
12.	Pittu Raju Dept. of Biostatistics St. Thomas college, Pala		<u>Pittu</u>
13.	Ajaly S Nair Dept of Biostat St. Thomas College, Pala	9	<u>Ajaly</u>
14.	Anagha Menon V. U Dept of Biostat St Thomas College, Pala	"	<u>Anagha</u>
15	Aneena. M.S Dept. of Biostatistics ST. Thomas College Pala	"	<u>Aneena</u>
16.	Aswin R Nair Dept of Biostatistics St Thomas College Pala		<u>Aswin</u>

17. Jeethu Issac
Dept of biostatistics
St. Thomas college, Pala

II. MSc Biostatistics

Jeethu

18. Surya S
Dept. of Biostatistics
St. Thomas college, Pala

"

Surya

19. Anju Jaya Jacob
Dept. of Biostatistics
St. Thomas college, pala.

Asst. professor

Anju

20. Anjana Thomas
Dept. of Biostatistics
St. Thomas college, pala.

"

Anjana

21. Meenu Tom
Dept. of Biostatistics
St. Thomas college, pala.

"

Meenu

Resource Persons:

1. Dr. Anil C. Mathew
Dept. of Community Medical
General Secretary, ISMS

Professor of Biostatistics
PSC Institute of Medical
Sciences & Research, Coimbatore

2. Dr. B. Binukumar
Dept. of Biostatistics

Asst. Professor
NIMHANS, Bangalore

Binu

3. Dr. K.K. Jose
KSCSTE Emeritus Professor

STC Pala

Jose

ST. THOMAS COLLEGE, PALAI

WORKSHOP ON THE EFFECTIVE USE OF TECHNOLOGY IN TEACHING & ADMINISTRATION

Organized by
Internal Quality Assurance Cell

on 3rd June 2015

Venue: Library Hall

Programme



St. Thomas College Palai

ST. THOMAS COLLEGE, PALAI

WORKSHOP ON THE EFFECTIVE USE OF TECHNOLOGY IN TEACHING & ADMINISTRATION

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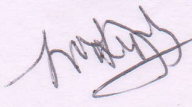

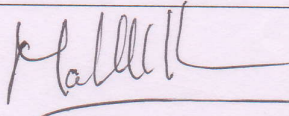
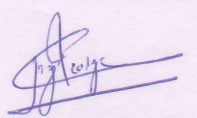

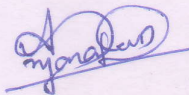

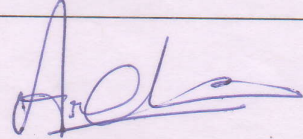
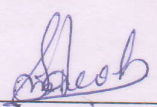

- Prayer Song : Prof. Tejil Thomas
- Welcome : **Dr. Sunny Joseph**
Principal
St. Thomas College Palai
- Keynote Address : **Dr. Babu Sebastian**
Hon'ble Vice Chancellor
Mahatma Gandhi University, Kottayam
- Open Discussion and Interaction
- Presentation : *ICT---Resources, Opportunities and Challenges*
Dr. Ison V. Vanchipurackal
System Administrator
St. Thomas College Palai
- Vote of Thanks : Rev. Dr. James John Mangalathu
Vice Principal
St. Thomas College Palai

ST. THOMAS COLLEGE PALAI
WORKSHOP ON THE EFFECTIVE USE OF TECHNOLOGY IN
TEACHING & ADMINISTRATION

Organized by
 Internal Quality Assurance Cell

3rd June 2015

ATTENDANCE SHEET

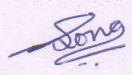
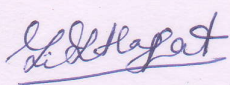
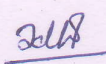
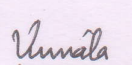
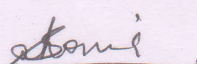

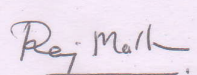
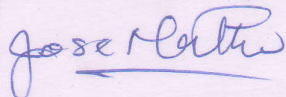
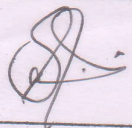
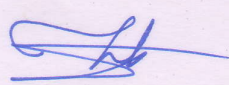
Sl. No.	Name and Address of the participants	Signature
1	Dr Sunny Joseph Principal, STC Palai	
2	Rev. Dr. James Mangalathu Vice Principal, STC Palai	
3	Rev. Fr. Mathew Kurian Kovanadi - Bursar, STC Palai malarayil	
4	Dr. Sr. Gizimol M. G, Vice Principal Alphonsa College Pala	
5	Dr. Mariamma Mathew, Dept. of Politics Alphonsa College, Pala.	
6	Dr. Arjanaderi - J.P, Dept. of Biotechnology St. Thomas College, Pala	
7	Praveena George, Dept of Biotechnology St. Thomas College, Pala	
8	Anchana Cherian, Dept. of Biotechnology St. Thomas College, Pala	
9	Simi Jacob, Dept. of Biotech & Applied Micro ST. Thomas College Palai	
10.	Vinny Johnny, Dept. of Biostatistics ST. Thomas College Palai	

ST. THOMAS COLLEGE PALAI
WORKSHOP ON THE EFFECTIVE USE OF TECHNOLOGY IN
TEACHING & ADMINISTRATION

Organized by
 Internal Quality Assurance Cell

3rd June 2015

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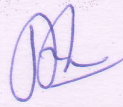

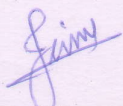



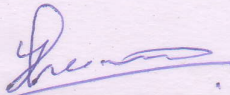
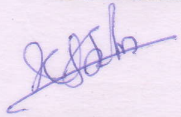
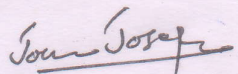
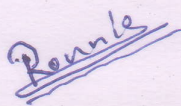
Sl. No.	Name and Address of the participants	Signature
11.	Sona Sunny, Dept. of Vocational Education, St. Thomas College, Palai.	
12.	Dr. Lini. L. Chappat, Dept. of Vocational Education, St. Thomas College, Palai.	
13.	Adheena Alphonsa Abu Dept. of Vocational Education, St. Thomas college	
14.	Vimala Emmanuel, Dept. of Maths Alphonsa college	
15.	Sonia Sebastian, Dept. of English Alphonsa College, Palai	
16.	Dr. K.M. Kuman Dept. of Statistics - St. Thomas College Palai	
17.	Dr. RAS MATHEW Dept. of Mathematics St. Thomas College, Palai	
18.	Jose Mathew Head Accountant - St. Thomas College Palai	
19.	Saji T.S. LDC, STC Palai.	
20.	Mathew Thomas, Dept. of Zoology St. Thomas College Palai	

ST. THOMAS COLLEGE PALAI
WORKSHOP ON THE EFFECTIVE USE OF TECHNOLOGY IN
TEACHING & ADMINISTRATION

Organized by
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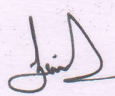


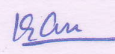
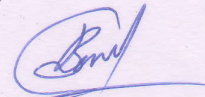
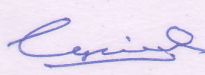
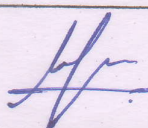
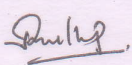
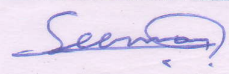
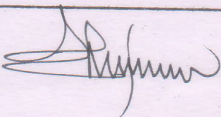
Sl. No.	Name and Address of the participants	Signature
21	Alan Zacharia, Dept. of Economics St. Thomas College, Palai	
22	LIBIN KURIAKOSK, DEPT. OF PHYSICS ST. THOMAS COLLEGE, PALAI	
23	Jinu Mathew, Dept. of Commerce St. Thomas College, Palai	
24	James Varghese, Dept. of Commerce St. Thomas College, Palai	
25	Alan Jose Abraham, Dept. of Vocational Education, St. Thomas College Palai	
26	Arun P.M, Dept. of Vocational Education St. Thomas College, Palai	
27	Tommy Thomas, Dept. of Mathematics St. Thomas College, Palai	
28	K.S. John, Jr. Supdt SIC, Palai	
29	John Joseph, Administrative Assistant St. Thomas College Palai	
30	Rennie Idiculla Varkey Dept. of History St. Thomas College, Palai, K.T.M.	

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3rd June 2015

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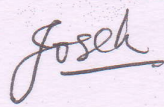

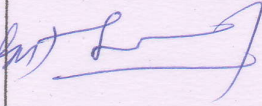

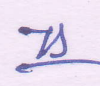
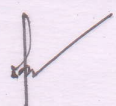

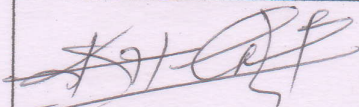
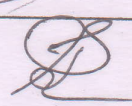
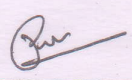
Sl. No.	Name and Address of the participants	Signature
31	Janish Lukose Asst. Professor, Dept. of Phy. Edu. St. Thomas College	
32	Bintu T. Kalyan. Asst. Professor Dept. of Physical Education. Etc.	
33	Joseph U.F. L.D.T.	
34	R.C Mathew UDC	
35	Babu Jose (Commerce)	
36	CYRIAC JOSE (History)	
37	Ansal Jose Baby (Chemistry)	
38	JITHIN PRAKASH PA DEPT. OF CHEMISTRY.	
39	Seeman Thomas (Statistics)	
40	MS. JAYAPRIYAD (Voc. Edu Dept.)	

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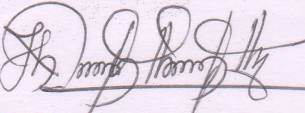


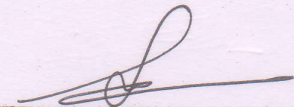

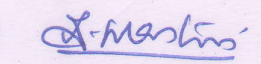
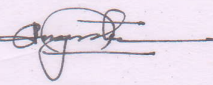
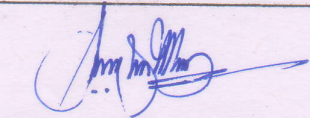
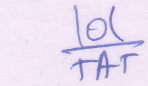
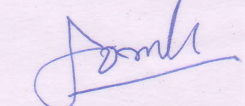
Sl. No.	Name and Address of the participants	Signature
41.	Dr. Jose K Xavier (Chemistry)	
42.	Dr. Ratheesh M (Biochemistry)	
43.	James Joseph (Molecular Biology)	
44.	BINOY CHACKO [COMMERCE]	
45.	SUBIN THOMAS [Blom. Self-financing]	
46.	MANESH VARMAHSE JOHN (HISTORY)	
47.	Siju Joseph (malayalam)	
48.	George George (Pol.)	
49.	Bojans Dullathu. (Mal)	
50.	PRINCE MON JOSE (Mal)	

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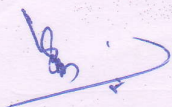

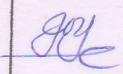
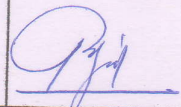
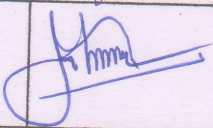
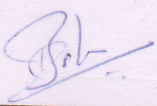

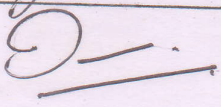
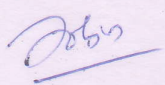

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51.	Tejel Thomas (Commerce)	
52.	P. J. Johnson (English)	
53.	Dr. Sunny Math Physics	
54.	Zoli Jacob (Economics)	
55.	Joben K Antony (Economics)	
56.	Sajeer Martins George (Chemistry)	
57.	Augustine S Edakkara (Physics)	
58.	Boby P. Mathew (Mathematics)	
59.	Thaslechan Augustine (Mathematics)	
60.	Jose. V.K (Mathematics)	

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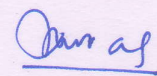

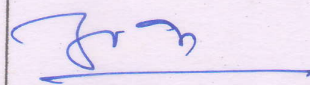
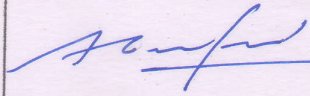
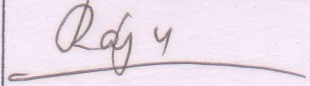
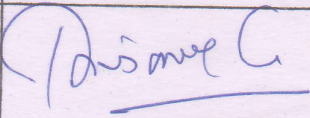

<i>Sl. No.</i>	<i>Name and Address of the participants</i>	<i>Signature</i>
61.	Isan. V. Vanchipurackal (Physics)	
62.	Shayimus K Matheas	
63.	Joy George	
64.	Dr. Simon Augustine Dept. of Physics	
65.	K.V. John (Com)	
66.	Bobby Simon Dept. of Commerce	
67.	Jose Mathew (English)	
68.	Jishnu Venugopal (English)	
69.	Joby Mathew (English)	
70.	Siby James (English)	

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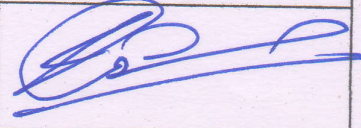
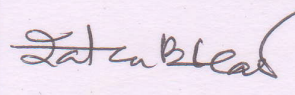
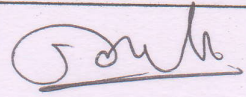
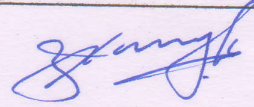
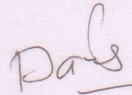
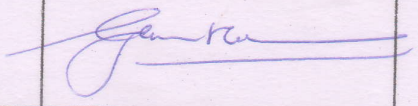
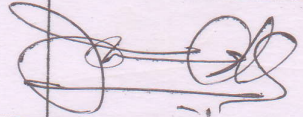
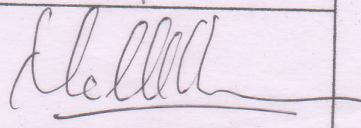
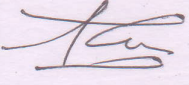
Sl. No.	Name and Address of the participants	Signature
71.	Dr. V. Georgekutty, Dept. of Hindi, St Thomas College, Palai.	
72.	Dr. Sebastian George, Dept. of Statistics STC, Palai	
73.	Dr. Alex Thennippan, Dept of Stat	
74.	Dr Thomas George Malayalam	
75.	Paul V. Karanikhanon, Botany STC, Palai	
76.	Jogy Alex, chemistry	
77.	Avin Jose	
78.	Roginle Augustue Dept. of English, STC Palai	
79.	Francis Mathew Dept. of English, STC Palai	
80.	Rajin Mathew Dept. of physics STC Palai	

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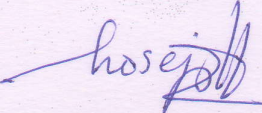
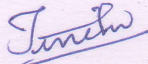


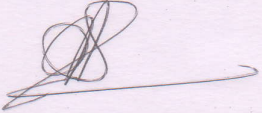
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81	Dr. Dennis Thomas T. Dept. of Botany	
82	Dr. Poji Thomas Dept of Botany	
83	Sabu De Mathew Dept. of Malayalam	
84	Dr. Mathew Thomas Dept. Hindi	
85	Dr. Benny P.J Dept. of English	
86	Dr. Davis Xavier Dept of Malayalam	
87	Dr G. D. Gem Mathew Dept of Chemistry	
88	Dr. C.K. James Dept of Hindi	
89	Fr Mathew Kierulac Dept of Politics	
90	Tomy Joseph, Librarian	

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Sl. No.	Name and Address of the participants	Signature
91.	Joseph J Mathew, Department of Economics, ST-Thomas College Palai.	
92.	Tinehu P. James, Dept of Politics, STC, Palai	
93.	Soumya Jose Dept. of Malayalam	
94.	TINIUMOL MATHEW MATHEMATICS	
95.	Dr Sunil C Mathew IQAC Coordinator STC Palai	



ST. THOMAS COLLEGE, PALAI

WORKSHOP ON THE EFFECTIVE USE OF TECHNOLOGY IN TEACHING & ADMINISTRATION

3 June 2015

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CERTIFICATE

Certified that Mr./Ms./Dr.....
.....has

participated in the Workshop on "The Effective Use of Technology in Teaching & Administration" held at
St. Thomas College, Palai on 3rd June 2015.

Palai
03/06/2015

Dr. Sunil C. Mathew
Co-ordinator, IQAC

Dr. Sunny Joseph
Principal

2014-15



NEWSLETTER

2014 - '15

VOL. XVII NO.1 JUNE 2015

Principal's Message

Came, Saw and Concurred



The academic year 2014-15 has been a momentous one in the history of the college. Our institution has been adjudged one of the best in its category with 'A' grade by the National Assessment and Accreditation Council (NAAC). The contributions of many dedicated persons – those at the helm of affairs, those in the employ of the college, students, their parents, the alumni - our extended St. Thomas community, and other well-wishers of our college – have gone into this historic achievement. On this occasion, first of all, I would like to thank Almighty God for making our long-cherished dream come true. I also thank each and every person for their valuable share of work towards this goal.

The academic profile of the college has been strengthened by the introduction of new PG, UG and diploma programmes. MA History programme, B.Voc. Sustainable Agriculture and B.Voc. Food Processing Technology and Diploma in Computer

Hardware and Networking and Diploma in Renewable Energy have been started. Our college is all set to expand and promote aspiring students with a faculty ready to galvanize leading-edge spheres of knowledge and develop programmes that can bring about changes in the community in a highly positive way.

A large number of seminars, conferences, workshops and invited talks have been conducted in the academic year. In science and humanities we have been home to brilliant people tunnelling away in the field of research, teaching and extension activities. All such programmes were organized with a vision in mind that progress occurs when institutions bring creative minds together. From the enthusiastic participation of our students and research scholars in these programmes we infer that our young minds reflect an intelligent lineage that extends back over generations. In fact the legacy of our luminaries is in the promise of our rising stars.

It is our dream to raise St. Thomas College to a position to take the lead in research oriented projects beneficial for the community at large. The campus with an environment dedicated to both instruction and inspiration is like an experimental laboratory where creative risk-taking is a way of life. Nine new research projects sponsored by the UGC have been sanctioned to our teachers this year. Also seven such projects sanctioned earlier have been completed successfully. Two major research projects (with amounts near one million rupees and above) have also been completed this year.

Many members of our faculty, in their professional capacity, have been called upon to set the direction for larger institutions like universities. Dr. Babu Sebastian, Associate Professor, Dept. of Malayalam, has been appointed as the Vice Chancellor of Mahatma Gandhi University. A scholar and expert in diverse fields of academic and administrative activity, Dr. Babu Sebastian blends theory and practice harmoniously in his professional life. I congratulate my colleague and wish him all success and God's blessings on assumption of this exalted office.

To make academic life on the campus vibrant by guiding students through a process of intellectual enquiry and self-discovery and to rededicate ourselves to better positioning St. Thomas College as a 21st century institution of higher learning that is bound to scale new heights in academic and co-curricular activities, various programmes were organized.

We have a track record of 'firsts' in sports and games. This year also we are champions in volleyball, swimming, cross-country race, body building etc. and runners up in athletics at university level. I thank all the department and other associations and forums in the college for making this academic year a fruitful one.

Principal Rev. Fr. N.V. Joseph Njarakkattil along with seven other members of the faculty retired from service in 2014-15. They include two vice principals, Dr. V.T. Thomas and Prof. Tommy Cherian Vadakkekunnel. Three members of the non-teaching staff also retired from service this year. With a deep sense of appreciation and gratitude I remember all my retired colleagues and wish them happy retired life.

This year we have lost one of our luminaries whose legacy will illuminate the campus forever. Our former principal Rev. Dr. Mathew Malaleparambil was called to eternal rest on 22 March 2015. He had set clearly defined goals, modelled successful academic and administrative behaviour and empowered the college community to think creatively and act responsibly. He worked on multiple fronts to transform the higher education sector in the state enabling generations of students to flourish and create a future for themselves. We trust we have gained an angel in heaven that watches over us.

In near future our campus will be renewed for the 21st century with a state of the art sports complex and swimming pool facility, smart class rooms and student spaces infused with modern technology that supports teaching, learning and physical and mental fitness. We have begun a new century, nay a new millennium and we would help each other to rise to the challenges of tomorrow, for which we have to bank on the breadth and depth of our knowledge and skills. As I take over as principal of this great institution, I request your whole-hearted co-operation in making it lead others by example. We must strive to see our students succeed in their lives both as students here and as citizens after they leave us. I wish all of you all the best in life.

Dr. Sunny Joseph Panjikunnel

St. Thomas College Re-accredited with A Grade by NAAC

The College was re-accredited with A Grade (GPA 3.30) in the NAAC Assessment (3rd cycle) conducted during 23-25 February 2015. The NAAC Peer Team consisted of Prof. Arunoday Saha (Chairman), Prof. Ramana Rao Kamaraju (Member) and Prof. G.K. Karanth (Member Co-ordinator).

St. Thomas College, Pala had been assessed and accredited by NAAC with 4 Star Grade in February 2000 and with B++ Grade in February 2007. The report of the NAAC Peer Team who visited the College during 21-23 February 2007 was an eye-opener to the entire college community. This has contributed significantly to our march towards enhancement of quality in all areas. The College has been successful in evaluating its strengths and weaknesses and making up for the weaknesses during the last 8 years. We have implemented all the recommendations of the last Peer Team and made significant improvements in all areas and identified new domains in our quest for excellence. The initial steps for the NAAC re-accreditation process were taken by



Prof. Arunoday Saha hands over the report of the NAAC Peer Team to the Principal Rev. Fr. N.V. Joseph Njarakkattil at the Exit Meeting

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SEMINARS, CONFERENCES, WORKSHOPS AND LECTURES

NANOCHEMBIO 2014 – National Seminar on Nanochemistry and Nanobiotechnology



Prof. V.N. Rajasekharan Pillai inaugurates NANOCHEMBIO - 2014

The Department of Chemistry, has organised a two-day National Seminar on Nanochemistry and Nanobiotechnology (NANOCHEMBIO-2014) on 8 & 9 October 2014. About 100 delegates including teachers, research scholars, industrialists, NGOs and students participated. The seminar was inaugurated by Prof. V. N. Rajasekharan Pillai (Executive Vice President, KSCSTE & Principal Secretary to Govt. of Kerala). Mar Jacob Muricken (Auxiliary Bishop of Palai) delivered the benedictory speech and Principal Rev. Fr. N.V. Joseph Njarakkattil presided over the function. Prof. V.T. Thomas (HoD of Chemistry) and Dr. Sunny Kuriakose (Convenor, NANOCHEMBIO – 2014) delivered the welcome speech and vote of thanks respectively.

The keynote address was delivered by Prof. V. N. Rajasekharan Pillai. Eight technical sessions led by Prof. (Dr.) Sabu Thomas

(Director, IIUCNN, M. G. University), Dr. Edamana Prasad (IIT, Madras), Prof. (Dr.) Kuruville Joseph (IIIST, Thiruvananthapuram), Dr. Nandakumar Kalarikkal (Deputy Director, IIUCNN, M. G. University), Dr. Vincent Mathew (Central University of Kerala) and Dr. Suraj Soman (NIIST, Thiruvananthapuram) were conducted during the two-day seminar. Dr. Praveen (Post Doc Fellow, IIUCNN, M. G. University) and Mr. Ajith Thomas (St. Thomas College, Palai) won the Best Paper and the Best Poster awards respectively. The proceedings of the seminar 'NANOCHEMBIO 2014 – The Interfaces of Nanotechnology, Chemistry and Biology' edited by Dr. Sunny Kuriakose and Dr. Thomas V. Mathew, was released at the valedictory function.

Seminar on Biotechnology

A one-day Seminar on 'Biotechnology - Recent Advances and Career Aspects' was organised by the Department of Applied Microbiology and Biotechnology on 18 September 2014. Dr. Roshni Baby Mathews, Department of Biotechnology, Cochin University of Science and Technology (CUSAT), was the chief resource person. She explained the importance of Biotechnology in pharmaceutical and agriculture sectors.



Principal Rev. Fr. N.V. Joseph Njarakkattil presents a memento to Dr. Roshni Baby Mathews

Seminar on Modern Separation Techniques

A Seminar on 'Modern Separation Techniques' was organised by the Department of Chemistry on 14 November 2014. Prof. (Dr.) Hassan Y. Aboul-Enein, Professor of Pharmaceutical and Medicinal Chemistry at National Research Centre, Cairo, Egypt, was the chief resource person at the seminar. A world renowned scientist in the field of separation chemistry, Prof. (Dr.) Hassan Y. Aboul-Enein was formerly Professor at the Universities of Alabama and Iowa (USA) and King Saud University, Riyadh (KSA). He is also the author of 950 research papers and 8 books on pharmaceutical and biomedical analysis. At the beginning of the programme, Dr. V.T. Thomas, Head, Department of Chemistry, welcomed the



Prof. (Dr.) Hassan Y. Aboul-Enein delivers the lecture

gathering and introduced the distinguished speaker to the audience. Prof. (Dr.) Hassan Y. Aboul-Enein then delivered two invited talks on the topics: 'The Impact of Chirality on Drug Development' and 'Capillary Electrophoresis: An Alternative Technique for Chiral Separation'. At the end of the lectures, Rev. Fr. N.V. Joseph Njarakkattil, Principal, presented a memento to the invited speaker, on behalf of the College. The programme came to an end with a vote of thanks by Dr. G.D. Gem Mathew, co-ordinator of the programme. About 120 students and teachers from the Departments of Chemistry, Botany, Biostatistics, Biotechnology and Applied Microbiology participated in the seminar.



Principal Rev. Fr. N.V. Joseph Njarakkattil presents a memento to Prof. (Dr.) Hassan Y. Aboul-Enein

Workshop on Research Methodology and Developments in Literary Studies

The Department of English organised a two-day workshop on 'Research Methodology and Developments in Literary Studies', on 24 and 25 June 2014 for research scholars and postgraduate students. Talks were delivered by Dr. B.



Dr. B. Hariharan inaugurates the workshop

Hariharan (Director, Centre for Canadian Studies, Institute of English, University of Kerala) on 'Research Methodology', Dr. P.P. Raveendran (Former Director, School of Letters, Mahatma Gandhi University) on 'Developments in Literary Studies'; Dr. P.S. Radhakrishnan (Director, School of Letters, Mahatma Gandhi University) on 'Literary Studies: Theory and Practice'; and Mr. Murali K.K. (Assistant Librarian, Mahatma Gandhi University) on 'Library, Resource for Research'. The workshop was co-ordinated by Prof. Tommy Cherian Vadakkekunnel (Head, Dept. of English) and Ms. Ajomy Maria Joseph.



Dr. P.P. Raveendran delivers the talk



Dr. P.S. Radhakrishnan delivers the talk

Reports of Administrative Audit

ADMINISTRATIVE AUDIT REPORT FOR THE YEAR 2014-15

1. Name of the Institution : St. Thomas College, Palai
2. Name of the Management : Diocese of Palai
3. Administrative Head of the Institution : The Principal
4. Head of the Office : The Senior Superintendent
5. Status of Bio-metric Punching : Yes / No
6. Office Timing : 10.00 a.m. to 5.00 p.m. for Office Staff
09.00 a.m. to 05.00 p.m. for Attenders
09.00 a.m. to 05.00 p.m. of LGS
04.30 p.m. to 08.30 a.m. for Watchman
7. Total Number of Administrative Staff
 - (a) Permanent : 49
 - (b) Temporary : 9
8. Administrative Structure : The Principle is the administrative head of the institution. The head of the office is the Senior Superintendent. Senior Superintendent is in charge of the office administration. The Head Accountant is in charge of the Cash Book, Custodian of Cash Chest and Supervisor of all other financial matters and the section clerks under him. There is on Fair Copy section under the control of a Selection Grade Typist who deals with tapal and despatch.
9. Number of Sections : 08
10. Name of different Sections :
 - a) Establishment Section administrative head of the institution
 - b) Accounts Section
 - c) Admission Section
 - d) Examination Section
 - e) E-Grants Section
 - f) Fee Collection Section
 - g) UGC Section

11. Work Distribution to the Sections and :

h) Purchase Section

- a) Establishment Section** - This section is under the direct control of the Senior Superintendent and deals with the service matters of teaching and administrative staff of the institution. The various service matters including Regularisation, Probation, Sanction of Annual Increment, Sanction of Leave, etc...
- b) Accounts Section** - This section under the control of the Head Accountant and deals with the Salary, Advance Loans etc. of teaching and administrative staff of the institution. Also, other matters in connection with Provident Fund admission, P.F. advance, P.F. Non Refundable advance and Closure of Provident Fund etc.
- c) Admission Section** - This section is under the control of Head Accountant and Senior Supdt. and deals with all matters related with admission of students in various classes of different department by following the reservation rules of the state Govt. It also deals with the matters related with student attendance etc.
- d) Examination Section** - This section is under the control of Senior Superintendent and deals with Internal Marks, Internal Examinations and University Semester Examinations of the students.
- e) E-Grants Section** - This section is under the control of the Head Accountant and Senior Supdt. and deals with fee concession matters for eligible students. Provide informations about various scholarships to the students, invites applications of scholarships and verify it through the Scholarship Nodal Officer of the college.
- f) Fee Collection Section** - This section is under the control of the Head Accountant and collect all kinds of fees from students.
- g) UGC Section** - Under the control of the Head Accountant and Senior Superintendent and deals with correspondents with UGC and maintains the UGC accounts.
- h) Purchase Section** - Under the control of the Head Accountant and Senior Superintendent and deals with

Purchases by using various funds available to the institution as per Store Purchase Rules of the State.
15/06/2015

12. Training Programmes to the Staff :

13. The Various Sources of Funds :

- (a) RUSA Fund - Rs. Nil
- (b) UGC Fund - Rs. 53,65,450/-
- (c) P.D. Fund - Rs. 12,05,949/-
- (d) CPE -Rs. 10,00,000/-

14. Utilization of Funds Received :

- (a) RUSA Fund - Rs. Nil
- (b) UGC Fund - Rs. 53,65,450/-
- (c) P.D. Fund - Rs. 12,05,949/-
- (d) CPE -Rs. 10,00,000/-



P. S. NAJEEB
ACCOUNTS OFFICER IN CHARGE
OF DY. DIRECTOR OF COLLEGIATE EDUCATION
ERNAKULAM

ADMINISTRATIVE AUDIT REPORT FOR THE YEAR 2015-16

1. Name of the Institution : St. Thomas College, Palai
2. Name of the Management : Diocese of Palai
3. Administrative Head of the Institution : The Principal
4. Head of the Office : The Senior Superintendent
5. Status of Bio-metric Punching : Yes / No
6. Office Timing : 10.00 a.m. to 5.00 p.m. for Office Staff
09.00 a.m. to 05.00 p.m. for Attenders
09.00 a.m. to 05.00 p.m. of LGS
04.30 p.m. to 08.30 a.m. for Watchman
7. Total Number of Administrative Staff
- (a) Permanent : 46
- (b) Temporary : 9
8. Administrative Structure : The Principle is the administrative head of the institution. The head of the office is the Senior Superintendent. Senior Superintendent is in charge of the office administration. The Head Accountant is in charge of the Cash Book, Custodian of Cash Chest and Supervisor of all other financial matters and the section clerks under him. There is on Fair Copy section under the control of a Selection Grade Typist who deals with tapal and despatch.
9. Number of Sections : 08
10. Name of different Sections : a) Establishment Section
b) Accounts Section
c) Admission Section
d) Examination Section
e) E-Grants Section
f) Fee Collection Section
g) UGC Section

11. Work Distribution to the Sections and :

h) Purchase Section

- a) Establishment Section** - This section is under the direct control of the Senior Superintendent and deals with the service matters of teaching and administrative staff of the institution. The various service matters including Regularisation, Probation, Sanction of Annual Increment, Sanction of Leave, etc...
- b) Accounts Section** - This section under the control of the Head Accountant and deals with the Salary, Advance Loans etc..of teaching and administrative staff of the institution. Also, other matters in connection with Provident Fund admission, P.F. advance, P.F. Non Refundable advance and Closure of Provident Fund etc..
- c) Admission Section** - This section is under the control of Head Accountant and Senior Supdt. and deals with all matters related with admission of students in various classes of different department by following the reservation rules of the state Govt. It also deals with the matters related with student attendance etc..
- d) Examination Section** - This section is under the control of Senior Superintendent and deals with Internal Marks, Internal Examinations and University Semester Examinations of the students.
- e) E-Grants Section** - This section is under the control of the Head Accountant and Senior Supdt. and deals with fee concession matters for eligible students. Provide informations about various scholarships to the students, invites applications of scholarships and verify it through the Scholarship Nodal Officer of the college.
- f) Fee Collection Section** - This section is under the control of the Head Accountant and collect all kinds of fees from students.
- g) UGC Section** - Under the control of the Head Accountant and Senior Superintendent and deals with correspondents with UGC and maintains the UGC accounts.
- h) Purchase Section** - Under the control of the Head Accountant and Senior Superintendent and deals with

Purchases by using various funds available to the institution as per Store Purchase Rules of the State.
15/05/2017

12. Training Programmes to the Staff :

13. The Various Sources of Funds :

- (a) RUSA Fund - Rs. Nil
- (b) UGC Fund - Rs. 41,68,100/-
- (c) DST- Rs. 21,00,000/-
- (d) P.D. Fund - Rs. 11,28,812/-

14. Utilization of Funds Received :

- (a) RUSA Fund - Rs. Nil
- (b) UGC Fund - Rs. 41,68,100/-
- (c) DST- Rs. 21,00,000/-
- (d) P.D. Fund - Rs. 11,28,812/-



P. S. NAJEEB
ACCOUNTS OFFICER IN CHARGE
OF DY. DIRECTOR OF COLLEGIATE EDUCATION
ERNAKULAM

ADMINISTRATIVE AUDIT REPORT FOR THE YEAR 2016-17

1. Name of the Institution : St. Thomas College, Palai
2. Name of the Management : Diocese of Palai
3. Administrative Head of the Institution : The Principal
4. Head of the Office : The Senior Superintendent
5. Status of Bio-metric Punching : Yes / No
6. Office Timing : 10.00 a.m. to 5.00 p.m. for Office Staff
09.00 a.m. to 05.00 p.m. for Attenders
09.00 a.m. to 05.00 p.m. of LGS
04.30 p.m. to 08.30 a.m. for Watchman
7. Total Number of Administrative Staff
- (a) Permanent : 44
- (b) Temporary : 11
8. Administrative Structure : The Principle is the administrative head of the institution. The head of the office is the Senior Superintendent. Senior Superintendent is in charge of the office administration. The Head Accountant is in charge of the Cash Book, Custodian of Cash Chest and Supervisor of all other financial matters and the section clerks under him. There is on Fair Copy section under the control of a Selection Grade Typist who deals with tapal and despatch.
9. Number of Sections : 08
10. Name of different Sections : a) Establishment Section
b) Accounts Section
c) Admission Section
d) Examination Section
e) E-Grants Section
f) Fee Collection Section
g) UGC Section

11. Work Distribution to the Sections and :

h) Purchase Section

- a) Establishment Section** - This section is under the direct control of the Senior Superintendent and deals with the service matters of teaching and administrative staff of the institution. The various service matters including Regularisation, Probation, Sanction of Annual Increment, Sanction of Leave, etc...
- b) Accounts Section** - This section under the control of the Head Accountant and deals with the Salary, Advance Loans etc..of teaching and administrative staff of the institution. Also, other matters in connection with Provident Fund admission, P.F. advance, P.F. Non Refundable advance and Closure of Provident Fund etc..
- c) Admission Section** - This section is under the control of Head Accountant and Senior Supdt. and deals with all matters related with admission of students in various classes of different department by following the reservation rules of the state Govt. It also deals with the matters related with student attendance etc..
- d) Examination Section** - This section is under the control of Senior Superintendent and deals with Internal Marks, Internal Examinations and University Semester Examinations of the students.
- e) E-Grants Section**-This section is under the control of the Head Accountant and Senior Supdt. and deals with fee concession matters for eligible students. Provide informations about various scholarships to the students, invites applications of scholarships and verify it through the Scholarship Nodal Officer of the college.
- f) Fee Collection Section** - This section is under the control of the Head Accountant and collect all kinds of fees from students.
- g) UGC Section** - Under the control of the Head Accountant and Senior Superintendent and deals with correspondents with UGC and maintains the UGC accounts.
- h) Purchase Section** - Under the control of the Head Accountant and Senior Superintendent and deals with

Purchases by using various funds available to the institution as per Store Purchase Rules of the State.
09/11/2017, 25/11/2017

12. Training Programmes to the Staff :

13. The Various Sources of Funds :

- (a) RUSA Fund - Rs. Nil
- (b) UGC Fund - Rs. 30,62,690/-
- (c) P.D. Fund - Rs. 12,93,635/-

14. Utilization of Funds Received :

- (a) RUSA Fund - Rs. Nil
- (b) UGC Fund - Rs. 30,62,690/-
- (c) P.D. Fund - Rs. 12,93,635/-



P. S. NAJEEB
ACCOUNTS OFFICER IN CHARGE
OF DY. DIRECTOR OF COLLEGIATE EDUCATION
ERNAKULAM

ADMINISTRATIVE AUDIT REPORT FOR THE YEAR 2017-18

1. Name of the Institution : St. Thomas College, Palai
2. Name of the Management : Diocese of Palai
3. Administrative Head of the Institution : The Principal
4. Head of the Office : The Senior Superintendent
5. Status of Bio-metric Punching : Yes / No
6. Office Timing : 10.00 a.m. to 5.00 p.m. for Office Staff
09.00 a.m. to 05.00 p.m. for Attenders
09.00 a.m. to 05.00 p.m. of LGS
04.30 p.m. to 08.30 a.m. for Watchman
7. Total Number of Administrative Staff
- (a) Permanent : 37
- (b) Temporary : 11
8. Administrative Structure : The Principle is the administrative head of the institution. The head of the office is the Senior Superintendent. Senior Superintendent is in charge of the office administration. The Head Accountant is in charge of the Cash Book, Custodian of Cash Chest and Supervisor of all other financial matters and the section clerks under him. There is on Fair Copy section under the control of a Selection Grade Typist who deals with tapal and despatch.
9. Number of Sections : 08
10. Name of different Sections : a) Establishment Section
b) Accounts Section
c) Admission Section
d) Examination Section
e) E-Grants Section
f) Fee Collection Section
g) UGC Section

11. Work Distribution to the Sections and :

h) Purchase Section

a) Establishment Section - This section is under the direct control of the Senior Superintendent and deals with the service matters of teaching and administrative staff of the institution. The various service matters including Regularisation, Probation, Sanction of Annual Increment, Sanction of Leave, etc...

b) Accounts Section - This section under the control of the Head Accountant and deals with the Salary, Advance Loans etc..of teaching and administrative staff of the institution. Also, other matters in connection with Provident Fund admission, P.F. advance, P.F. Non Refundable advance and Closure of Provident Fund etc..

c) Admission Section - This section is under the control of Head Accountant and Senior Supdt. and deals with all matters related with admission of students in various classes of different department by following the reservation rules of the state Govt. It also deals with the matters related with student attendance etc..

d) Examination Section - This section is under the control of Senior Superintendent and deals with Internal Marks, Internal Examinations and University Semester Examinations of the students.

e) E-Grants Section - This section is under the control of the Head Accountant and Senior Supdt. and deals with fee concession matters for eligible students. Provide informations about various scholarships to the students, invites applications of scholarships and verify it through the Scholarship Nodal Officer of the college.

f) Fee Collection Section - This section is under the control of the Head Accountant and collect all kinds of fees from students.

g) UGC Section - Under the control of the Head Accountant and Senior Superintendent and deals with correspondents with UGC and maintains the UGC accounts.

h) Purchase Section - Under the control of the Head Accountant and Senior Superintendent and deals with

Purchases by using various funds available to the institution as per Store Purchase Rules of the State. 27/04/2018


12. Training Programmes to the Staff :

13. The Various Sources of Funds :

- (a) RUSA Fund - Rs. Nil
- (b) UGC Fund - Rs. 10,991892/-
- (c) DST-Rs. 36,9000/-
- (d) P.D. Fund - Rs.11,39,300/-
- (e) CPE – Rs. 95,76,000/-

14. Utilization of Funds Received :

- (a) RUSA Fund - Rs. Nil
- (b) UGC Fund - Rs. 10,991892/-
- (c) DST-Rs. 36,9000/-
- (d) P.D. Fund - Rs.11,39,300/-
- (e) CPE – Nil


23/4/2018
P. S. NAJEEB
ACCOUNTS OFFICER IN CHARGE
OF DY. DIRECTOR OF COLLEGIATE EDUCATION
ERNAKULAM (R.S.)

ADMINISTRATIVE AUDIT REPORT FOR THE YEAR 2018-19

1. Name of the Institution : St. Thomas College, Paiai
2. Name of the Management : Diocese of Palai
3. Administrative Head of the Institution : The Principal
4. Head of the Office : The Senior Superintendent
5. Status of Bio-metric Punching : Yes / No
6. Office Timing : 10.00 a.m. to 5.00 p.m. for Office Staff
09.00 a.m. to 05.00 p.m. for Attenders
09.00 a.m. to 05.00 p.m. of LGS
04.30 p.m. to 08.30 a.m. for Watchman
7. Total Number of Administrative Staff
- (a) Permanent : 34
- (b) Temporary : 12
8. Administrative Structure : The Principle is the administrative head of the institution. The head of the office is the Senior Superintendent. Senior Superintendent is in charge of the office administration. The Head Accountant is in charge of the Cash Book, Custodian of Cash Chest and Supervisor of all other financial matters and the section clerks under him. There is on Fair Copy section under the control of a Selection Grade Typist who deals with tapal and despatch.
9. Number of Sections : 08
10. Name of different Sections : a) Establishment Section
b) Accounts Section
c) Admission Section
d) Examination Section
e) E-Grants Section
f) Fee Collection Section
g) UGC Section

11. Work Distribution to the Sections and :

h) Purchase Section

- a) Establishment Section** - This section is under the direct control of the Senior Superintendent and deals with the service matters of teaching and administrative staff of the institution. The various service matters including Regularisation, Probation, Sanction of Annual Increment, Sanction of Leave, etc...
- b) Accounts Section** - This section under the control of the Head Accountant and deals with the Salary, Advance Loans etc..of teaching and administrative staff of the institution. Also, other matters in connection with Provident Fund admission, P.F. advance, P.F. Non Refundable advance and Closure of Provident Fund etc..
- c) Admission Section** - This section is under the control of Head Accountant and Senior Supdt. and deals with all matters related with admission of students in various classes of different department by following the reservation rules of the state Govt. It also deals with the matters related with student attendance etc..
- d) Examination Section** - This section is under the control of Senior Superintendent and deals with Internal Marks, Internal Examinations and University Semester Examinations of the students.
- e) E-Grants Section** - This section is under the control of the Head Accountant and Senior Supdt. and deals with fee concession matters for eligible students. Provide informations about various scholarships to the students, invites applications of scholarships and verify it through the Scholarship Nodal Officer of the college.
- f) Fee Collection Section** - This section is under the control of the Head Accountant and collect all kinds of fees from students.
- g) UGC Section** - Under the control of the Head Accountant and Senior Superintendent and deals with correspondents with UGC and maintains the UGC accounts.
- h) Purchase Section** - Under the control of the Head Accountant and Senior Superintendent and deals with

Purchases by using various funds available to the institution as per Store Purchase Rules of the State.
02/09/2019

12. Training Programmes to the Staff :

13. The Various Sources of Funds :

- (a) RUSA Fund - Rs. 10,00,000/-
- (b) UGC Fund - Rs. 71,12,985/-
- (c) DST-Rs. 6,30,000/-

P. S. Najeeb
15/9/2019

P. S. NAJEEB
ACCOUNTS OFFICER IN CHARGE
OF DY. DIRECTOR OF COLLEGIATE EDUCATION (R/S.)
ERNAKULAM

Participation in NIRF



National Institutional Ranking Framework
Ministry of Human Resource Development
Government of India



Welcome to Data Capturing System: OVERALL

Institute ID: IR-O-C-11591

Institute Name: St. Thomas College, Arunapuram P.O., Pala-686 574

[← Go Back \(/DCS/Home\)](#)

Full Report

Sanctioned (Approved) Intake

Academic Year	2017-18	2016-17	2015-16	2014-15	2013-14	2012-13
UG [3 Years Program(s)]	776	776	776	---	---	---
PG [2 Years Program(s)]	285	285	---	---	---	---

Total Actual Student Strength (Program(s) Offered by Your Institution)

(All programs of all years)	No. of Male Students	No. of Female Students	Total Students	Within State (Including male & female)	Outside State (Including male & female)	Outside Country (Including male & female)	Economically Backward (Including male & female)	Socially Challenged (SC+ST+OBC Including male & female)	No. of students receiving full tuition fee reimbursement from the State and Central Government	No. of students receiving full tuition fee reimbursement from Institution Funds	No. of students receiving full tuition fee reimbursement from the Private Bodies	No. of students who are not receiving full tuition fee reimbursement
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(All programs of all years)	No. of Male Students	No. of Female Students	Total Students	Within State (Including male & female)	Outside State (Including male & female)	Outside Country (Including male & female)	Economically Backward (Including male & female)	Socially Challenged (SC+ST+OBC Including male & female)	No. of students receiving full tuition fee reimbursement from the State and Central Government	No. of students receiving full tuition fee reimbursement from Institution Funds	No. of students receiving full tuition fee reimbursement from the Private Bodies	No. of students who are not receiving full tuition fee reimbursement
UG [3 Years Program (s)]	1932	267	2199	2196	3	0	1135	509	926	9	0	709
PG [2 Years Program (s)]	115	422	537	535	2	0	300	126	278	8	15	125

Placement & Higher Studies

UG [3 Years Program(s)]: Placement & higher studies for previous 3 years									
Academic Year	No. of first year students intake in the year	No. of first year students admitted in the year	Academic Year	No. of students admitted through Lateral entry	Academic Year	No. of students graduating in minimum stipulated time	No. of students placed	Median salary of placed graduates (Amount in Rs.)	No. of students selected for Higher Studies
(2013-14)	666	654	(2014-15)	0	(2015-16)	275	39	360000 (Three lakh sixty thousand)	91
(2014-15)	776	673	(2015-16)	0	(2016-17)	325	35	288000 (Two lakh eighty eight thousand)	131
(2015-16)	776	761	(2016-17)	0	(2017-18)	394	54	252000 (Two lakh fifty two thousand)	103

PG [2 Years Program(s)]: Placement & higher studies for previous 3 years

Academic Year	No. of first year students intake in the year	No. of first year students admitted in the year	Academic Year	No. of students graduating in minimum stipulated time	No. of students placed	Median salary of placed graduates (Amount in Rs.)	No. of students selected for Higher Studies
(2014-15)	285	242	(2015-16)	213	53	390000 (Three lakh ninty thousand)	49
(2015-16)	285	280	(2016-17)	220	39	312000 (Three lakh twelve thousand)	51
(2016-17)	285	260	(2017-18)	208	33	270000 (Two lakh seventy thousand)	38

Ph.D Student Details

Ph.D (Student pursuing doctoral program till 2017-18; Students admitted in the academic year 2018-19 should not be entered here.)

	Total Students
Full Time	80
Part Time	51

No. of Ph.D students graduated (including Integrated Ph.D)

	2017-18	2016-17	2015-16
Full Time	11	18	16
Part Time	8	16	18

Financial Resources: Utilised Amount for the Capital & Operational expenditure for previous 3 years

Financial Year	2017-18	2016-17	2015-16
	Utilised Amount	Utilised Amount	Utilised Amount
Annual Capital Expenditure on Academic Activities and Resources (excluding expenditure on buildings)			
Library	651102 (Six lakh fifty one thousand one hundred and two)	650802 (Six lakh fifty thousand eight hundred and two)	647803 (Six lakh fourty seven thousand and eight hundred and two)
New Equipment for Laboratories	828663 (Eight lakh twenty eight thousand six hundred and sixty three)	824190 (Eight lakh twenty four thousand one hundred and ninety)	793125 (Seven lakh ninty three thousand one hundred and twenty five)
Engineering Workshops	0 (Zero)	0 (Zero)	0 (Zero)
Other expenditure on creation of Capital Assets (excluding expenditure on Land and Building)	318500 (Three lakh eighteen thousand five hundred)	527000 (Five lakh twenty seven thousand)	637500 (Six lakh thirty seven thousand five hundred)
Annual Operational Expenditure			
Salaries (Teaching and Non Teaching staff)	112036671 (Eleven crore twenty lakh thirty six thousand six hundred seventy one)	100287332 (Ten crore two lakh eighty seven thousand three hundred thirty two)	99000785 (Nine crore ninty lakh seven hundred eighty five)
Maintenance of Academic Infrastructure or consumables, other running expenditures etc. (excluding maintenance of hostels and allied services)	4185600 (Forty one lakh eighty five thousand six hundred)	3627500 (Thirty six lakh twenty seven thousand five hundred)	3267750 (Thirty two lakh sixty seven thousand seven hundred fifty)
Seminars/Conferences/Workshops	353000 (Three lakh fifty three thousand)	370000 (Three lakh seventy thousand)	790000 (Seven lakh ninty thousand)

IPR

Calendar year	2017	2016	2015
No. of Patents Published	0	0	0
No. of Patents Granted	0	0	0

Sponsored Research Details

Financial Year	2017-18	2016-17	2015-16
Total no. of Sponsored Projects	5	9	8
Total no. of Funding Agencies	5	4	4
Total Amount Received (Amount in Rupees)	356988	1272602	3363879
Amount Received in Words	Three lakh fifty six thousand nine hundred eighty eight	Twelve lakh seventy two thousand six hundred two	Thirty three lakh sixty three thousand eight hundred seventy nine

Consultancy Project Details

Financial Year	2017-18	2016-17	2015-16
Total no. of Consultancy Projects	0	0	0
Total no. of Client Organizations	0	0	0
Total Amount Received (Amount in Rupees)	0	0	0
Amount Received in Words	Zero	Zero	Zero

Executive Development Programs (Minimum one year duration)

Financial Year	2017-18	2016-17	2015-16
Total no. of Executive Development Programs	0	0	0
Total no. of Participants	0	0	0
Total Annual Earnings (Amount in Rupees)	0	0	0

Financial Year	2017-18	2016-17	2015-16
Total Annual Earnings in Words	Zero	Zero	Zero

PCS Facilities: Facilities of physically challenged students

1. Do your institution buildings have Lifts/Ramps?	Yes, more than 80% of the buildings
2. Do your institution have provision for walking aids, including wheelchairs and transportation from one building to another for handicapped students?	Yes
3. Do your institution buildings have specially designed toilets for handicapped students?	Yes, more than 80% of the buildings

Faculty Details

1. How many faculty members of your institution have received highly reputed national/international awards/recognition from Central government agencies in the previous year (2017-18)?	0
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Srno	Name	Age	Designation	Gender	Qualification	Experience (In Months)	Is Associated Last Year	Currently working with institution?	Joining Date	Leaving Date	Association type
1	ABIN JOSE	35	Assistant Professor	Male	M.A	18	Yes	Yes	24-01-2017	---	Regular
2	ANUPAMA K S RAMKUMAR	40	Lecturer	Female	M.Sc.(Microbiology)	100	Yes	Yes	01-03-2010	---	Regular
3	BINOY CHACKO	32	Assistant Professor	Male	M.COM	72	Yes	Yes	09-07-2012	---	Regular
4	DEEMAT C MATHEW	32	Assistant Professor	Male	Ph.D	29	Yes	Yes	15-02-2016	---	Regular
5	GEORGE VARGHESE	41	Assistant Professor	Male	Ph.D	47	Yes	No	27-10-2014	19-07-2018	Regular

6	JAMES VARGHESE	29	Assistant Professor	Male	M.COM	57	Yes	Yes	31-10-2013	---	Regular
7	JISHNU VENUGOPAL	32	Assistant Professor	Male	M. Phil	69	Yes	Yes	04-10-2012	---	Regular
8	JOMY AUGUSTINE	52	Associate Professor	Male	Ph.D	284	Yes	Yes	25-11-1994	---	Regular
9	JOY JACOB	59	Lecturer	Male	Ph.D	381	Yes	Yes	03-10-2017	---	Adhoc / Contractual
10	LINI L ALAPPAT	42	Lecturer	Female	Ph.D	43	Yes	Yes	01-12-2014	---	Adhoc / Contractual
11	MATHEW KURIAN	53	Assistant Professor	Male	M.A.(Political Science)	198	Yes	Yes	08-01-2002	---	Regular
12	P J BENNY	54	Associate Professor	Male	Ph.D	320	Yes	Yes	04-11-1991	---	Regular
13	RAJU K AUGUSTINE	51	Associate Professor	Male	M.A	309	Yes	Yes	01-09-1992	---	Regular
14	SABU DE MATHEW	56	Associate Professor	Male	Ph.D	265	Yes	No	04-06-1996	30-06-2018	Regular
15	SHILPA MATHEW	29	Assistant Professor	Female	M.A	69	Yes	Yes	04-10-2012	---	Regular
16	SOJAN PULLATTU	39	Assistant Professor	Male	Ph.D	116	Yes	Yes	06-11-2008	---	Regular
17	SUVERNANI DEVI E	37	Assistant Professor	Female	Ph.D	18	Yes	Yes	30-01-2017	---	Regular
18	TINJUMOL MATHEW	31	Assistant Professor	Female	M. Phil	63	Yes	Yes	31-10-2013	---	Regular
19	V O CHUMMAR	77	Lecturer	Male	M.A	548	Yes	No	01-07-1997	31-03-2018	Adhoc / Contractual
20	ANISH CYRIAC	41	Assistant Professor	Male	Ph.D	25	Yes	Yes	08-06-2016	---	Regular

21	AUGUSTINE J EDAKKARA	32	Assistant Professor	Male	M.Sc(Phy)	72	Yes	Yes	09-07- 2012	---	Regular
22	C K JAMES	53	Associate Professor	Male	Ph.D	309	Yes	Yes	16-09- 1992	---	Regular
23	G D GEM MATHEW	53	Associate Professor	Male	Ph.D	286	Yes	Yes	28-09- 1994	---	Regular
24	ISON V VANCHIPURACKAL	42	Assistant Professor	Male	Ph.D	181	Yes	Yes	02-06- 2003	---	Regular
25	JIKKI JOSE	34	Lecturer	Female	M.Tech	25	Yes	Yes	05-06- 2016	---	Adhoc / Contractual
26	JOGY ALEX	51	Associate Professor	Male	M. Phil	313	Yes	Yes	01-06- 1992	---	Regular
27	JOSEPH MATHEW	74	Lecturer	Male	M.Sc.	518	Yes	No	01-06- 2000	31-03- 2018	Adhoc / Contractual
28	KOCHURANI JOSEPH	43	Assistant Professor	Female	Ph.D	30	Yes	Yes	25-01- 2016	---	Regular
29	MANJESH MATHEW	34	Assistant Professor	Male	M.Sc.	25	Yes	Yes	08-06- 2016	---	Regular
30	NEETHU S NAIR	28	Lecturer	Female	M.A.(History)	8	Yes	No	19-11- 2017	31-10- 2018	Adhoc / Contractual
31	PRINCEMON JOSE	34	Assistant Professor	Male	Ph.D	72	Yes	Yes	09-07- 2012	---	Regular
32	ROBERSE THOMAS	30	Assistant Professor	Male	M. Phil	30	Yes	Yes	25-01- 2016	---	Regular
33	SEENA MATHEW	39	Assistant Professor	Female	Ph.D	18	Yes	Yes	24-01- 2017	---	Regular
34	SIMI JACOB	36	Lecturer	Female	M.Sc.	86	Yes	Yes	04-05- 2011	---	Adhoc / Contractual
35	SUNIL C MATHEW	46	Associate Professor	Male	Ph.D	276	Yes	Yes	17-07- 1995	---	Regular

36	THOMAS SCARIA	46	Assistant Professor	Male	Ph.D	116	Yes	Yes	06-11-2008	---	Regular
37	TONY JOSEPH	40	Assistant Professor	Male	M. Phil	30	Yes	Yes	25-01-2016	---	Regular
38	AMRUTHA GAYATHRY V	23	Lecturer	Female	B.Tech	18	Yes	Yes	03-01-2017	---	Visiting
39	ASHISH JOSEPH	40	Assistant Professor	Male	MP.Ed.	116	Yes	Yes	14-11-2008	---	Regular
40	BONEY BOSE	27	Lecturer	Male	M. Phil	8	Yes	Yes	05-11-2017	---	Adhoc / Contractual
41	FRANCY MATHEW	54	Associate Professor	Male	M.A	357	Yes	Yes	12-10-1988	---	Regular
42	GREENU ANS THOMAS	26	Lecturer	Female	M.A	13	Yes	Yes	01-07-2017	---	Adhoc / Contractual
43	JIBIN JOSEPH	29	Lecturer	Male	M.E.	21	Yes	Yes	03-10-2016	---	Adhoc / Contractual
44	JOBY MATHEW	37	Assistant Professor	Male	M.A	69	Yes	Yes	04-10-2012	---	Regular
45	JOSEPH J MATTAM	55	Associate Professor	Male	M. Phil	348	Yes	Yes	01-08-1989	---	Regular
46	K V JOHN	55	Associate Professor	Male	M.COM	360	Yes	Yes	12-07-1988	---	Regular
47	MANESH VARGHESE JOHN	40	Assistant Professor	Male	M. Phil	57	Yes	Yes	31-10-2013	---	Regular
48	MINU ABRAHAM	28	Lecturer	Female	M.Sc.	43	Yes	Yes	01-12-2014	---	Adhoc / Contractual
49	PRAVEENA GEORGE	33	Lecturer	Female	M.Sc.	84	Yes	Yes	15-07-2011	---	Adhoc / Contractual
50	RENU MATHEW	45	Lecturer	Female	M.Sc.	18	Yes	Yes	25-01-2017	---	Adhoc / Contractual

51	SEEMON THOMAS	47	Associate Professor	Male	Ph.D	249	Yes	Yes	09-10-1997	---	Regular
52	SIJU JOSEPH	38	Assistant Professor	Male	M.A	57	Yes	Yes	31-10-2013	---	Regular
53	STANY THOMAS	52	Associate Professor	Male	Ph.D	285	Yes	Yes	17-10-1994	---	Regular
54	THOMAS JACOB	69	Lecturer	Male	M.A	457	Yes	No	01-06-2005	31-03-2018	Adhoc / Contractual
55	TOMY THOMAS	50	Associate Professor	Male	MSc(Mathematics)	304	Yes	Yes	15-09-1995	---	Regular
56	AMAL JOSE BABY	30	Assistant Professor	Male	M.Sc.	72	Yes	Yes	09-07-2012	---	Regular
57	ARYA S	25	Lecturer	Female	MSc(Mathematics)	6	Yes	No	06-10-2017	28-04-2018	Adhoc / Contractual
58	BOBY P MATHEW	36	Assistant Professor	Male	Ph.D	72	Yes	Yes	10-07-2012	---	Regular
59	DONET M THOMAS	29	Lecturer	Male	M.A	18	Yes	No	27-09-2016	31-03-2018	Adhoc / Contractual
60	GINSON P JOSEPH	38	Assistant Professor	Male	Ph.D	116	Yes	Yes	06-11-2008	---	Regular
61	JAYESH ANTONY	37	Assistant Professor	Male	Ph.D	30	Yes	Yes	27-01-2016	---	Regular
62	JOBIN JOB MATHEN	27	Assistant Professor	Male	Ph.D	17	Yes	Yes	09-02-2017	---	Adhoc / Contractual
63	JOSE MATHEW	49	Associate Professor	Male	M.A	275	Yes	Yes	29-08-1995	---	Regular
64	K M KURIAN	54	Associate Professor	Male	Ph.D	373	Yes	Yes	01-06-1987	---	Regular
65	M S JAYAPRASAD	61	Lecturer	Male	B.Sc.	43	Yes	Yes	01-12-2014	---	Adhoc / Contractual

66	MICHAEL AGUSTINE	56	Associate Professor	Male	Ph.D	394	Yes	No	09-09-1985	30-04-2018	Regular
67	PAUL V KARAMTHANAM	50	Associate Professor	Male	M. Phil	290	Yes	Yes	24-08-1995	---	Regular
68	RATHEESH M	38	Assistant Professor	Male	Ph.D	72	Yes	Yes	09-07-2012	---	Regular
69	SEBASTIAN GEORGE	53	Associate Professor	Male	Ph.D	289	Yes	Yes	06-06-1994	---	Regular
70	SIJO MATHEW	38	Assistant Professor	Male	M.A.(Political Science)	72	Yes	Yes	09-07-2012	---	Regular
71	SREELAKSHMI RADHAKRISHNAN	25	Lecturer	Female	M.A.(History)	10	Yes	Yes	18-09-2017	---	Adhoc / Contractual
72	THANKACHAN AUGUSTINE	53	Associate Professor	Male	M. Phil	288	Yes	Yes	08-07-1994	---	Regular
73	TOM K VARGHESE	64	Lecturer	Male	M.A	393	Yes	No	01-06-2010	31-03-2018	Adhoc / Contractual
74	WILLIAM ZACHARIAS	55	Associate Professor	Male	M.A	381	Yes	Yes	20-10-1986	---	Regular
75	ANJU SENAN	30	Lecturer	Female	M.Sc.(Food Service Management & Dietetics)	32	Yes	Yes	31-07-2017	---	Visiting
76	BENNY KURIAN	54	Associate Professor	Male	Ph.D	288	Yes	Yes	18-07-1994	---	Regular
77	DAVIS XAVIER	50	Associate Professor	Male	Ph.D	265	Yes	Yes	04-06-1996	---	Regular
78	GEORGE JOSEPH	35	Assistant Professor	Male	M.A.(Political Science)	97	Yes	Yes	02-06-2010	---	Regular
79	JAMES JOSEPH	63	Lecturer	Male	M. Phil	97	Yes	Yes	07-06-2010	---	Adhoc / Contractual

80	JINU T JOSE	28	Lecturer	Female	M.Sc.	43	Yes	Yes	01-12-2014	---	Adhoc / Contractual
81	JOJI JACOB	35	Assistant Professor	Male	M. Phil	72	Yes	Yes	17-07-2012	---	Regular
82	JOY GEORGE	56	Associate Professor	Male	Ph.D	390	Yes	No	26-09-1985	31-03-2018	Regular
83	LIJI JOSE P	34	Lecturer	Female	MCA	13	Yes	Yes	03-06-2017	---	Adhoc / Contractual
84	MATHEW ALAPPATTUMEDAYIL	40	Assistant Professor	Male	M.A	60	Yes	Yes	01-06-2017	---	Regular
85	P D GEORGE	54	Associate Professor	Male	Ph.D	297	Yes	Yes	08-06-1993	---	Regular
86	RAJ MATHEW	49	Assistant Professor	Male	Ph.D	116	Yes	Yes	14-11-2008	---	Regular
87	ROSHAN JOSEPH	40	Lecturer	Female	MBA	18	Yes	Yes	03-01-2017	---	Adhoc / Contractual
88	SHAJIMON K MATHEWS	56	Associate Professor	Male	Ph.D	391	Yes	Yes	17-12-1985	---	Regular
89	SINI THOMAS K	31	Lecturer	Female	Ph.D	33	Yes	Yes	29-10-2015	---	Adhoc / Contractual
90	SUNNY MATHEW	56	Associate Professor	Male	Ph.D	288	Yes	No	01-07-1994	31-03-2018	Regular
91	TINCHU P JAMES	29	Assistant Professor	Female	M.A.(Political Science)	57	Yes	Yes	31-10-2013	---	Regular
92	V K JOSE	56	Associate Professor	Male	Ph.D	369	Yes	No	24-10-1985	31-03-2018	Regular
93	ANJANA THOMAS	27	Lecturer	Female	M.Sc.	39	Yes	Yes	21-04-2015	---	Adhoc / Contractual
94	BABU JOSE	39	Assistant Professor	Male	Ph.D	72	Yes	Yes	09-07-2012	---	Regular

95	CYRIAC JOSE	35	Assistant Professor	Male	Ph.D	72	Yes	Yes	09-07-2012	---	Regular
96	GEORGE J KAKKUZHIYIL	27	Assistant Professor	Male	M.COM	10	Yes	Yes	14-09-2017	---	Adhoc / Contractual
97	JAMES JOHN	50	Dean / Principal / Director / Vice Chancellor	Male	Ph.D	198	Yes	Yes	08-01-2002	---	Regular
98	JINU MATHEW	28	Assistant Professor	Male	M.COM	57	Yes	Yes	31-10-2013	---	Regular
99	JOHNS AUGUSTINE	49	Assistant Professor	Male	Ph.D	116	Yes	Yes	06-11-2008	---	Regular
100	JOVANCY MATHEW	38	Lecturer	Female	M.Sc.(Nutrition and Dietetics)	33	Yes	No	07-09-2015	18-06-2018	Adhoc / Contractual
101	LIBIN KURIAKOSE	37	Assistant Professor	Male	M.Tech	97	Yes	Yes	02-06-2010	---	Regular
102	MATHEW ABRAHAM	27	Lecturer	Male	M. Phil	25	Yes	Yes	04-06-2016	---	Adhoc / Contractual
103	NOBY MATHEW	34	Lecturer	Male	M.Sc.(Microbiology)	107	Yes	Yes	18-08-2009	---	Adhoc / Contractual
104	PRIYA THOMAS	38	Lecturer	Female	M.Sc.(Microbiology)	11	Yes	Yes	14-08-2017	---	Regular
105	ROSE MARIA JOSE	31	Lecturer	Female	MSc(Statistics)	70	Yes	Yes	10-09-2012	---	Adhoc / Contractual
106	SETHU N NAIR	27	Lecturer	Female	MSc(Statistics)	47	Yes	Yes	09-06-2014	---	Adhoc / Contractual
107	SIMON AUGUSTINE	55	Associate Professor	Male	Ph.D	294	Yes	Yes	20-01-1994	---	Regular
108	SUNNY KURIAKOSE	52	Associate Professor	Male	Ph.D	320	Yes	Yes	06-11-1991	---	Regular

109	THOMAS V MATHEW	40	Assistant Professor	Male	Ph.D	116	Yes	Yes	06-11-2008	---	Regular
110	TRACE BENNY	25	Assistant Professor	Female	M.A	25	Yes	Yes	16-06-2016	---	Adhoc / Contractual
111	ALAN ZACHARIA	38	Assistant Professor	Male	M.A.(Economics)	97	Yes	Yes	02-06-2010	---	Regular
112	ARCHANA CHERIAN	36	Lecturer	Female	M.Sc.	134	Yes	Yes	27-05-2007	---	Adhoc / Contractual
113	BINS MANI	35	Assistant Professor	Male	Ph.D	97	Yes	Yes	02-06-2010	---	Regular
114	DINIMOL N D	45	Assistant Professor	Female	Ph.D	18	Yes	Yes	31-01-2017	---	Regular
115	GIBIN RAJA GEORGE	30	Assistant Professor	Male	M.A	30	Yes	Yes	25-01-2016	---	Regular
116	JAYAKRISHNAN R	25	Assistant Professor	Male	M.A.(Political Science)	20	Yes	No	02-11-2016	01-11-2018	Adhoc / Contractual
117	JITHIN PRAKASH P A	31	Assistant Professor	Male	M.Sc.	72	Yes	Yes	09-07-2012	---	Regular
118	JOMY JOSE	27	Lecturer	Male	M.A.(History)	24	Yes	Yes	29-07-2016	---	Adhoc / Contractual
119	K C BIJU	44	Assistant Professor	Male	Ph.D	192	Yes	Yes	02-07-2002	---	Regular
120	LINO T MATHEW	36	Lecturer	Male	M.A	77	Yes	Yes	13-01-2017	---	Visiting
121	MATHEW THOMAS	56	Associate Professor	Male	Ph.D	369	Yes	No	17-01-1987	31-03-2018	Regular
122	P J JOHNSON	51	Associate Professor	Male	M.A	300	Yes	Yes	12-07-1993	---	Regular
123	RAJU MATHEW T	56	Associate Professor	Male	M. Phil	392	Yes	No	04-11-1985	31-03-2018	Regular

124	SAJEEV MARTIN GEORGE	38	Assistant Professor	Male	Ph.D	72	Yes	Yes	09-07-2012	---	Regular
125	SIBY JAMES	48	Associate Professor	Male	Ph.D	282	Yes	Yes	05-01-1995	---	Regular
126	SONIA M THOMAS	33	Lecturer	Female	M.COM	37	Yes	Yes	01-06-2015	---	Adhoc / Contractual
127	SWEETYMOL JOSE	37	Lecturer	Female	M.Sc.	3	Yes	No	09-10-2017	03-01-2018	Adhoc / Contractual
128	TOJI THOMAS	43	Assistant Professor	Male	Ph.D	198	Yes	Yes	08-01-2002	---	Regular
129	VIDYA VIJAYASENAN	25	Assistant Professor	Female	M.Sc.	11	Yes	No	01-12-2016	31-10-2017	Adhoc / Contractual
130	ALEX THANNIPPARA	53	Associate Professor	Male	Ph.D	360	Yes	Yes	11-07-1988	---	Regular
131	ARJUN RAM SANKAR	29	Lecturer	Male	MCA	13	Yes	Yes	03-06-2017	---	Adhoc / Contractual
132	BOBBY SIMON	40	Assistant Professor	Male	M. Phil	116	Yes	Yes	06-11-2008	---	Regular
133	DIVYA BHASKARAN	35	Lecturer	Female	M.A.(History)	13	Yes	Yes	29-06-2017	---	Regular
134	GIFTY ROSE GEORGE	28	Lecturer	Female	M.Sc.	9	Yes	Yes	01-11-2017	---	Adhoc / Contractual
135	JAYASREE RAJU	27	Lecturer	Female	M.A.(History)	9	Yes	No	20-06-2017	31-03-2018	Adhoc / Contractual
136	JOBEN K ANTONY	38	Assistant Professor	Male	M. Phil	97	Yes	Yes	02-06-2010	---	Regular
137	JOSE K XAVIER	55	Associate Professor	Male	Ph.D	310	Yes	Yes	01-09-1992	---	Regular
138	K K JOSE	61	Lecturer	Male	Ph.D	451	Yes	Yes	01-01-2016	---	Adhoc / Contractual

139	LITHIN THOMAS	25	Lecturer	Male	M.COM	9	Yes	No	11-10-2017	28-03-2018	Adhoc / Contractual
140	MATHEW THOMAS	35	Assistant Professor	Male	M.Sc.	97	Yes	Yes	02-06-2010	---	Regular
141	P O AUGUSTHY	56	Associate Professor	Male	Ph.D	272	Yes	No	17-07-1995	31-03-2018	Regular
142	RAJU THOMAS	54	Associate Professor	Male	MP.Ed.	310	Yes	Yes	01-09-1992	---	Regular
143	SALVIN K THOMAS	37	Assistant Professor	Male	M.A	55	Yes	Yes	16-12-2016	---	Regular
144	SIJO K MANUEL	36	Assistant Professor	Male	Ph.D	116	Yes	Yes	03-11-2008	---	Regular
145	SOUMYA JOSE	36	Assistant Professor	Female	M.A	72	Yes	Yes	09-07-2012	---	Regular
146	TEJIL THOMAS	35	Assistant Professor	Male	Ph.D	97	Yes	Yes	02-06-2010	---	Regular
147	TOJO JOSEPH	34	Assistant Professor	Male	M.Sc.	30	Yes	Yes	25-01-2016	---	Regular
148	VINEETH VENUGOPAL	32	Lecturer	Male	M.Sc.	69	Yes	Yes	11-12-2017	---	Visiting

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Influence of MnCl_2 on the properties of an amino acid complex single crystal-L-arginine perchlorate (LAPCI) for optical limiter applications

Prince Thomas¹ · Rajendhar Junjuri² · Nithin Joy³ · Michael Siemer⁴ · Manoj Kumar Gundawar² · Reji Philip³ · Katharina Al-Shamery⁴ · Ginson P. Joseph¹

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Abstract

The slow solvent evaporation technique has been employed for the synthesis of L-arginine perchlorate (LAPCI) single crystals. The grown crystals are doped with 1, 2 and 3 mol% of MnCl_2 . The Powder X-ray Diffraction (PXRD) analysis confirmed that the pure and doped crystals belong to the orthorhombic crystal system with non-centrosymmetric space group $P2_12_12_1$. The incorporation of dopants has been confirmed by Laser-Induced Breakdown Spectroscopy (LIBS) and Energy Dispersive X-ray Analysis (EDX). The modification in the linear optical properties has been analyzed by measuring the cut off wavelength, band gap, Urbach energy and the refractive index of the pure and doped crystals. The changes in the nonlinearity of the LAPCI have been studied by open aperture Z-scan technique and found that two-photon absorption (2PA) coefficient increased with increasing the dopant concentration. The dielectric properties, electronic polarizability and thermal properties of the pure and doped crystals are also studied.

1 Introduction

Recently, great efforts have been made by many materials scientists to search for an appropriate semi-organic material exhibiting high nonlinearity and reasonable success in synthesizing bulk size single crystals which are favorable for device fabrication [1–7]. The studies on organic and semi-organic nonlinear optical materials have got greater attention due to their high flexibility in molecular design and high nonlinear optical efficiency [8]. The research on this way resulted in the invention of a new phase matchable amino acid based semi-organic crystal. The unique characteristics of amino acids like molecular chirality, the absence

of strongly conjugated bonds and zwitterionic nature make them an ideal candidate among organic single crystals [9]. L-Arginine is an essential amino acid with a basic side chain and hydrophilic character. The L-arginine perchlorate (LAPCI) prominent among L-arginine complexes has been synthesized by Monaco et al. [10]. The LAPCI crystallizes in the orthorhombic crystal system with space group $P2_12_12_1$ [11]. The Second Harmonic Generation Efficiency (SHG) test performed by Tapati Mallik and Tanusree Kar shows that it is higher than KDP [12]. The mechanical and dielectric studies conducted by Aruna et al. [13] revealed that the LAPCI crystal has anisotropic mechanical properties along different crystallographic directions and low values of the dielectric constant at high frequencies. The low dielectric constant value of LAPCI makes it a tool for high-speed electro-optic modulation [14] and indicates that this material is suitable for the development of NLO devices. Even though the growth and characterization studies of the LAPCI single crystals have been studied by many researchers [15–18], the effect of MnCl_2 on the electrical, thermal and optical properties of the LAPCI is studied for the first time.

The effects of the substitution and inclusion of metallic dopants in various single crystals with nonlinear optical properties have already been reported by many researchers. Studies conducted by Haja Hameed et al. [19] showed that addition of Magnesium (Mg) into the L-Arginine Phosphate

✉ Ginson P. Joseph
ginsonpj@gmail.com; ginsonpjoseph@gmail.com

¹ Department of Physics, St.Thomas College, Palai, Kerala 686574, India

² Advanced Centre of Research in High Energy Materials (ACRHEM), University of Hyderabad, Prof C R Rao Road, Gachibowli, Hyderabad, Telangana 500046, India

³ Raman Research Institute, Bangalore, Karnataka 560080, India

⁴ Institute of Chemistry, School of Mathematics and Natural Sciences, Carl von Ossietzky University Oldenburg, P.O. Box 2503, 26111 Oldenburg, Germany

⁵ Center for Advanced Materials, Qatar University, 2713 Doha, Qatar

⁶ Department of Mechanical and Industrial Engineering, Qatar University, 2713 Doha, Qatar


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Photoinduced electron transfer in novel CdSe–Cu₂Se type II core–shell quantum dots†

 N. J. Simi,^a R. Vinayakan^b and V. V. Ison^{a*}

Herein we report the synthesis, characterisation and electron transfer studies of CdSe–Cu₂Se QDs, a novel type II core–shell system. The synthesis was achieved by a high temperature organometallic method with oleylamine as ligand. Structural and optical properties of the nanostructures were investigated using X-ray diffraction, high resolution transmission electron microscopy, selected area electron diffraction, energy dispersive X-ray spectroscopy, inductive coupled plasma optical emission spectroscopy, cyclic voltammetry, X-ray photoelectron spectroscopy and absorption spectroscopy. The electron transfer dynamics were investigated by observing the variations in steady state and time resolved emission spectra in the presence of an electron acceptor–methyl viologen. Localization of electrons in the shells was evident from the studies performed indicating efficient charge separation.

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Introduction

Core–shell quantum dots (QDs) are functional nanomaterials where ‘band engineering’ results in tailored properties that are quite different from their monocomponent counterparts.^{1,2} The possibility of adjusting the overlap of electron–hole wave functions in these systems leads to benefits in longer single³ and multiple⁴ exciton lifetimes, superior optical gain⁵ and reduced blinking.⁶ Their potential features make them highly demandable in various fields such as light emitting diodes,⁷ photovoltaic devices,⁸ optical switches⁹ spintronic devices,¹⁰ low-threshold lasers,¹¹ bio-labeling agents,¹² *etc.* Depending on the band alignment of the core and shell materials, three types of core–shell QDs systems are identified, *viz.* type I, reverse type I and type II, possessing different functional features.^{1,13–16} Among these assortments, a gifted advantage of the type II QDs is that the band gap offset in them spatially separates photo-generated carriers within the structure such that the electron-wave function resides largely in one material and the hole-wave function in the other.^{6,17–20} The energy offset can be tuned by a judicious control of the composition, size and shape of each component which offers the possibility of directly controlling the electron–hole wave function overlap, tailoring the optoelectronic properties of the devices based on them.²¹ The staggered alignment of band edges helps in improving the power conversion efficiency of photovoltaic cells by preventing the back electron transfer.^{22,23} This also causes a reduction in

the oscillator strength of wave functions leading to longer lifetimes of the excited state.⁹ The exciplex state of type II QDs can raise the light absorption rate too.²³

Different research groups reported the advancements in type II structures in consort with their characteristic features like wide absorption range extending to NIR, enhanced chemical stability, reduced recombination rate, longer exciton lifetime, efficiency enhancement in photovoltaics, *etc.*^{23–28} The band edge recombination energy of type II systems is observed to be smaller than the bandgap energy of its constituent semiconductor materials so that an emission at lower energies compared to the core (or shell) is a characteristic feature of type II QDs.²⁹ A detailed investigation of the photo-induced electron/hole transfer dynamics is essential in core–shell structures, particularly while considering them as an active layer in light harvesters.^{30–33} Many research groups have used the method of monitoring the luminescence of core–shell QDs in presences of an electron donor/acceptor to investigate their charge carrier dynamics.^{34,35} Zhang *et al.* investigated the quenching of QD photoluminescence in the presence of hole acceptors and explored the static and dynamic factors involved.³⁶ A similar study in core–shell nanorods by Jiang group differentiated the quenching mechanism based on the nature of binding sites. The effect of shell thickness on the charge carrier separation and recombination was also investigated in presence of electron/hole scavengers.³⁷ In case of CdTe–CdSe type II core–shell system, quenching studies with anthraquinone showed an increase in charge transfer rate as well as longer exciton lifetime with an increase in thickness of CdSe shell.³⁸ Again, the role of shell in charge carrier dynamics was unambiguously proved by Maity *et al.* in case of a CdS–CdTe QD-bromopyrogallol system.³¹

^aCentre for Nano Bio Polymer Science and Technology, Department of Physics, St. Thomas College, Palai, Arunapuram, Kottayam-686574, Kerala, India. E-mail: isonv@rediffmail.com; Tel: +919446126926

^bNSS Hindu College Changanacherry, Kottayam-686102, Kerala, India

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CuInS₂–In₂Se₃ quantum dots – a novel material via a green synthesis approach†

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N. J. Simi,^a Libin Kuriakose,^a R. Vinayakan^b and V. V. Ison^{*a}

Novel CuInS₂–In₂Se₃ QDs were prepared by a two stage organometallic colloidal synthesis procedure. A layer of indium selenide was grown over the CuInS₂ QD core, under high temperature in the presence of oleylamine. The optical properties of the nanostructures grown were studied using UV-Vis absorption spectroscopy and the band gap obtained was in line with the cyclic voltammetry (CV) results. The elemental composition was analysed using energy dispersive X-ray spectroscopy (EDAX), inductive coupled plasma-atomic emission spectroscopy (ICP-AES) and X-ray photoelectron spectroscopy (XPS). The structural properties were investigated using X-ray diffraction (XRD) and high resolution transmission electron microscopy (HRTEM). The TEM images showed spherical nanostructures of size about 4.8 nm with well-defined lattice planes which were also evident from selected area electron diffraction (SAED) patterns. The XRD pattern indicated a tetragonal chalcopyrite crystal structure for the nanostructures.

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Accepted 29th October 2018

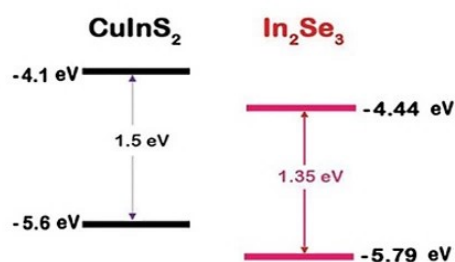
DOI: 10.1039/c8ra07389a

rsc.li/rsc-advances

Introduction

Engineering the physical and chemical properties of semiconductor nanostructures or quantum dots (QDs) has been a frontier research area for the past three decades.^{1–5} The efficaciousness of QDs lies in controlling their properties by tuning the size, shape and composition.^{6–9} In addition, the choice of an organic surfactant layer protecting the nanostructure expands the possibility of surface engineering.^{10,11} Though cadmium and lead based nanoparticles are verified with high applicability,^{12,13} their inherent toxicity calls forth environment friendly and commercially viable ‘green’ nanostructures,^{13–15} particularly when biomedical applications are concerned.^{16,17} Green QDs include I–III–VI₂ compounds such as CuInS₂ (CIS), CuInSe₂ (CISE), and CuInSeS (CISES) along with many other binary quantum dots which are free from heavy metals.^{18,19} Among these, CIS and CISE are direct band gap semiconductors with band gap onset in the NIR region.^{20,21} Besides, the high absorption coefficient makes them efficient in light harvesting applications.²² But, compared to the binary II–VI QDs, the slow hole scavenging and the presence of surface trap states limits the use of these I–III–VI₂ nanostructures in different applications. This is due to the non-stoichiometric compositions and complex crystal structures of these nanostructures.^{23,24} A possible solution to overcome these issues is to passivate the surface states by an epitaxial growth of a semiconductor layer

which further modifies the electronic properties of the nanostructures synthesized.^{24–27} Recently, Kim *et al.* observed that a ZnS shell over CISE core reduced non-radiative recombination and interfacial electron recombination in them.¹⁵ Similarly, Donega and coworkers reported an appreciable improvement in photoluminescence quantum yield of CIS QDs by over coating with ZnS or CdS.^{28,29} The same observation was also reported by Klimov and coworkers while evaluating light emission mechanisms in a CIS/ZnS core–shell system.³⁰ Most of the reported works on CIS and CISE QDs are based on growing a ZnS passivating layer over the core to form a core/shell type-I structure.^{17,31–33} In some earlier attempts, In₂S₃ was used in conjunction with CIS thin films for improving the performance of thin film based photovoltaic systems.^{34,35} Also, In₂Se₃ has been employed as a buffer layer in devising CIS QD sensitized solar cells.³⁶ In the present study, the effort is to grow an indium selenide (In₂Se₃) passivating layer over the CIS core, which not only acts as a surface passivating layer, but also results in a type-II band offset, which can confine the holes in the core and the electrons in the outer layer³⁷ (Scheme 1). The resulting charge



Scheme 1 Schematic representation of the energy level diagrams of CIS and In₂Se₃.

^aCentre for Nano Bio Polymer Science and Technology, Department of Physics, St. Thomas College, Palai, Arunapuram, Kottayam-686574, Kerala, India. E-mail: isonv@rediffmail.com; Tel: +919446126926

^bNSS Hindu College, Changanacherry, Kottayam-686102, Kerala, India

† Electronic supplementary information (ESI) available. See DOI: 10.1039/c8ra07389a



Investigation of structural, optical and electrical properties of transition metal oxide semiconductor CdO–ZnO nanocomposite and its effective role in the removal of water contaminants

M. Mahendiran^{a,b}, J.J. Mathen^c, Mohamed Racik^{a,b}, J. Madhavan^a, M. Victor Antony Raj^{a,b,*}

^a Department of Physics, Loyola College, Chennai, India

^b Loyola Institute of Frontier Energy (LIFE), Loyola College, Chennai, India

^c Department of Physics, St. Thomas College, Palai, Kerala, India

ARTICLE INFO

Keywords:

Cadmium oxide

Zinc oxide

Electron beam diffraction

Williamson-Hall method and photocatalytic activity

ABSTRACT

In this technological era as the usage and development of technology is on the rise we encounter serious repercussions of pollution in both drinking and daily usage of water. Nanocomposite of Cadmium Oxide and Zinc Oxide (CdO–ZnO) has the property of alienating the pollutants from the water. A conventional hydrothermal method was adapted for the preparation of nanocomposite of CdO–ZnO from their respective metal acetate dihydrates and NaOH. Structural and morphological analysis by electron beam diffraction technique reveals the formation of unique nanorod with spherical morphology of the synthesized particle. Williamson-Hall method was used to find the crystallite size and the lattice strain. Fourier transforms infrared (FTIR) spectroscopy further confirmed the stretching and vibration of chemical bonds of the materials. The study of electronic transitions within the material was portrayed with UV–Vis absorption spectrum and the obtained energy gap is 3.99 eV. A thorough investigation of temperature dependent electrical properties of CdO–ZnO nanocomposite was carried out in the frequency range from 50 Hz to 5 MHz. Studies revealed that the composite material is responsible for higher photocatalytic performance under the irradiation of UV photon. The high photocatalytic activity was originated from superoxide O_2^- radicals due to the efficient trapping of photogenerated electrons in CdO by ZnO.

1. Introduction

In the economic growth of a country, industrial development plays an indispensable role. The incessant growth of human population with its increased needs promote many industrial evolutions. Food processing and textiles printing industries are widely exploit the nature by releasing contaminants like dyes and pigments. These pollutants cause threats to the human living environment in the recent past. The effect of these contaminants, especially on the water resources has been adverse in the recent years. Adapting innovative nanotechnological methods over traditional processes offer considerate solutions for water treatment. The latest advances in nanotechnology for wastewater treatment includes nano-based materials, nanometals, nano adsorbents, nano-membranes and photocatalysts [1,2].

Photocatalysis has interested the scientific community, as one of the most promising solutions for the removal of residual dye pollutants from wastewater streams. The process involves a photochemical reaction at the transition metal semiconductor's surface which must have

two reactions occurring concurrently. The oxidation from photo-induced positive holes as the first reaction and reduction from photon-induced negative electrons as the second reaction [3,4]. Semiconductors like TiO_2 , ZnO, CeO_2 and SnO_2 lead an effective green technology, suitable for eliminate and destruction of organic pollutants from wastewater [5–12]. Among many available photocatalysts, Cadmium oxide (CdO) and zinc oxide (ZnO) possess excellent performance, due to its interesting property of wide direct band gap of 2.5eV and 3.37eV. By combining these materials to form composite of mixed properties pave a way for further improvements in this arena. Cadmium oxide-zinc oxide (CdO–ZnO) composite can be thus used as a potential candidate for photocatalytic applications [13].

In recent studies, CdO–ZnO nanocrystalline materials are considered one of the best, a versatile and favourable material with its many exciting properties and wide perspective in pollutant removal applications. Their wide range of applications is extended to photocatalytic activity, solar cell applications, phototransistors, diodes, transparent electrodes, sensors, etc, [14]. CdO and ZnO are

* Corresponding author. Department of Physics, Loyola College, Chennai, India.
E-mail address: vicvad2003@yahoo.co.in (M.V. Antony Raj).



St. Thomas College, Palai

ARUNAPURAM P.O., PALAI - 686 574, KERALA STATE, INDIA

Office: Ph: 91-4822-212317, Ph: 04822-212316, Mobile: 9188420859, +919447140859, Fax : 91-4822-216313

Affiliated to Mahatma Gandhi University, Kottayam

Re-accredited with A Grade by NAAC in 2015 and 'College with Potential for Excellence' 2016-2021

No. Gs V/ tour/ PL/01/2019

ARUNAPURAM
24/01/2019

To,

The Proctor

English and Foreign Language University,
Hyderabad

Subject: Study Tour and Cultural Exchange Programme-reg.

Sir,

As part of the study tour, 15 Students and three Teachers of Post Graduate and Research Department of Hindi, St. Thomas College, Palai, would like to visit EFL University, Hyderabad on 31st January 2019 from 9.00am to 10.00am. Kindly permit them to visit and have a short programme there.

I request you to render them all possible help to make their visit informative and successful.

Thanking You,



Yours faithfully,

Principal

Copy To: *Dr. Shyamrao Rathod*
Deputy Proctor,
Associated Professor and Head
Department of Hindi
EFL University, Hyderabad

Department of Hindi
St. Thomas College Palai

Sl. No	Name	Gender	Age
1	Aagrathi Unnikrishnan	Female	22
2	Anjana Babu	Female	22
3	Annamma Joseph	Female	22
4	Athira K Sali	Female	23
5	Bhagyalakshmi M	Female	22
6	Darsana S	Female	25
7	Deepa Lonappan	Female	28
8	Keerthana M Nair	Female	21
9	Saumya Sara Mathew	Female	22
10	Sheetal A A	Female	22
11	Sneha Hari	Female	21
12	Sreelekha N	Female	21
13	Vyshnavi Mohan	Female	23
14	Blessan Raju	Male	21
15	Sajo Sabu Joseph	Male	24
16	Dr. Kochurani Joseph [Escort]	Female	43
17	Dr. Anish Cyriac [Escort]	Male	41
18	Justin Joseph [Escort]	Male	33



II MA Hindi Students at EFLU



Students Presenting Cultural programmes at EFLU

On Farm VAM Production

On Farm VAM Production was conducted by Department of Vocational Education on 5th of October 2018 at South Kidangoor Krishibhavan. It was conducted under the scheme “Capacity Building Training for Farmers” of Department of Agricultural Development & Farmers welfare.

About 25 students and 28 farmers participated the programme. Resource person for the programme were Sri Baburaj G., Agriculture Officer, Kidangoor and Ms.Renu Mathew (Asst. Prof. Department of Vocational Education, St Thomas College Pala).



VAM is a rooting inducing mychorrhiza which can be cultured in the field itself. Farmers can produce it in the field by using vermiculite, sand and they are grown in sweet corn roots. A training was given under Capacity Building and students demonstrated it before the farmers. Teachers participated in the programme were Ms. Renu Mathew and Mr.M.S. Jayaprasad.

Organising Agency - Department of Vocational Education

Collaborating Agency - Department of Agricultural Development & Farmers welfare

Name of the scheme - Capacity Building Training for Farmers

No of students participated - 25

Target Group - Farmers, Kidangoor Krishi Bhavan

Name and Contact details of Collaberating Agency - A O Kidangoor.. Ph no. 9446021539

Resource person - Sri Baburaj G., Agriculture Officer, Kidangoor and Ms. Renu Mathew

(Asst Prof , St Thomas College Pala)

Name of Teachers participated - Ms. Renu Mathew and Mr.M.S. Jayaprasad

About the activity: VAM is a rooting inducing mychorrhiza which can be cultured in the field itself. Farmers can produce it in the field by using vermiculite, sand and they are grown in sweet corn roots. A training was given under Capacity Building and students demonstrated it before the farmers.



Students at doing Demonstration of VAM Production

UBA VILLAGE SURVEY

As Part of Unnat Bharat Abhiyan (UBA) Baseline Household Survey, students of St. Thomas College, Pala, Conducted survey in eight villages in the premises of the college with the support of the Village Offices and the elected Ward Members.

All Students from the III and II D.C. English classes took part in the survey. They visited more than 800 households and collected data on many aspects of the life of the family members and their property, their needs and scope for development and uplift. The students were very active and sincere in the work assigned to them. Students took part in the first phase of the programme, i.e., collecting data and students worked for uploading the data in the Govt. Portal.

Dr. Ratheesh M was the Co-ordinator of the programme. The students were guided by the teachers of the respective Students said it was a good experience for them though it was tiring. They said they learnt many things from the programme.

The Programme was introduced by the IQAC of St. Thomas College, Pala. This was done as part of our social commitment and feeling of unity and adherence to basic human values.

Name of the scheme	Name of the Department	Collaborating agency	Name of the activity	Number of teachers	Number of students participated	Duration	Duration of Uploading	No. of Houses Visited
UBA-Elackad Village	Economics	Govt. of India	Baseline Household survey	5	115	10.01.2019 to 17.01.2019	25.01.2019	404
UBA-Kidangoor Village	Political Science	Govt. of India	Baseline Household Survey	4	48	10.01.2019 to 17.01.2019	30.01.2019	502
UBA-Puliyannoor Village	English	Govt. of India	Baseline Household Survey	5	52	10.01.2019 to 17.01.2019	06.02.2019	661
UBA-Lalam Village	History and Malayalam	Govt. of India	Baseline Household Survey	8	104	10.01.2019 to 17.01.2019	12.02.2019	356
UBA-Vallichira Village	Commerce	Govt. of India	Baseline Household Survey	6	55	10.01.2019 to 17.01.2019	21.02.2019	546

2017-18

REGISTRATION FORM ICTAM - 2017

Name (in block letters) :
Designation :
Address for communication :
Phone :
E-mail :
Title of research paper :
Participant as Delegate/
Author/ Co-Author :
Type of accommodation : Hostel / Hotel
Name of the Bank :
Branch :
DD. No :
Place :
Date : Signature

Deligetes are requested to send their registration fee as Demand Draft drawn in favour of "The Principal St. Thomas College Pala" payable at Pala, along with their abstract and registration form. (photocopy of this may also be used). Kindly make your request for accommodation before 4th September 2017.

ORGANIZING COMMITTEE

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H.E. Mar Joseph Kallarangu
Bishop of Palai

MANAGER

H.E. Mar Jacob Muricken
Auxiliary Bishop of Palai

CHAIR PERSON

Dr. Joy George
Principal, St. Thomas College, Palai

CONVENOR

Dr. Ratheesh M - Assistant Professor,
Department of Biochemistry

ORGANISING SECRETARY

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Mr. Sony Rajan Mr. Krishnanand
Mr. Jobin Joseph Mr. Augustine Joseph
Mr. Sharon Mr. Joseph Roy

FOR CORRESPONDENCE

Department of Biochemistry
St. Thomas College Palai
Arunapuram P.O., pin:686574
Ph: 8281978453, 9495751779
Email: biochemistrystcp@gmail.com
Website : www.stcp.ac.in



International Conference On TRADITIONAL & ALTERNATIVE MEDICINE (ICTAM - 2017)

ORGANIZED BY
DEPARTMENT OF BIOCHEMISTRY
ST. THOMAS COLLEGE, PALA

VENUE-
LIBRARY HALL,
ST. THOMAS COLLEGE, PALA
18th & 19th September 2017

SPONSORED BY



INVITATION

The theme of this medical conference is Traversing the Future of Alternative Medicine. This conference will mainly focus on the latest and exciting innovations in every area of Alternative Medicine research, and it will offer a unique opportunity for scientists from all over the world to meet, network, and perceive new scientific interactions. ICTAM-2017 aims to gather leading educational scientists, researchers and research students to exchange & share their experiences and research results about all aspects of Natural and Alternative Medicine.

At ICTAM-2017, a variety of special areas will be covered during the 2 day meet including herbal therapy, Ayurvedic, homeopathy, ethno pharmacology and many more exciting areas. I would like each one of you to make use of the great opportunity to learn and collaborate with others which will enlighten and exchange new insights of traditional therapies that will be rewarding to the mankind as a whole.

CONFERENCE HIGHLIGHTS:

- Evolution of Alternative Medicine
- Herbal Medicine & Plant Remedies
- Coconut & its Value added Products
- Current Research in Alternative Medicine
- Holistic Approach of Alternative Medicine
- Ayurvedic & Homeopathy
- Physical Therapies and Natural Remedies
- Pharmacognosy & Biological Product Development
- Conservation & Sustainable Utility of Medicinal Plants
- Nutraceuticals

Biochemie Cordially Invites You.....

St. Thomas College, Palai, founded in 1950 has to its credit more than 60 years of distinguished, service in the field of higher education in the state of Kerala sending out many graduate maxima cum laude to carve out their destinies in diverse spheres. The college has been recognized by the UGC as a *College with potential for excellence and re-accredited with A grade.*

Department of Biochemistry, founded in 1976 has grown strength over the years. The relatively small size of our department provides an atmosphere of collegiality and accessibility. At the same time, close contacts and collaborations with other strong institutions in India and abroad, provide a breadth of expertise and experience of which we take full advantage. Research group in the department addresses structure of biological macromolecules, the mechanisms by which they function and the possible applications to research technology and medicine

SPEAKERS

PLENARY SESSION

Dr. Muhammed Majeed
Founder & MD (Sami Labs Ltd)

KEYNOTE ADDRESS

- Dr. Samson Mathews Samuel**
(Weill-Cornell Medicine - Qatar - Cornell University)
- Dr. K. Radhakrishnan**, Chief Executive Officer (IC),
(SMPB, Kerala)
- Dr. S. Sasidharan**, Universiti Sains, Malaysia

INVITED TALKS

- Dr. Anirban Sukul**
(Hony Physician, Ministry of Public Health, Govt of Thailand)
- Dr. D. Suresh Kumar**
(Head, Product Development, Cymbio Pharma Pvt, Ltd.)
- Dr. Ronnie Moore** (University College Dublin, Ireland)
- Dr. Saji Francis** (American Board of Internal Medicine)
- Dr. Alex Hankey** (USA)
- Dr. P.G. Biju** (Dept. of Biochemistry, Kerala University)
- Dr. S. Sandya** (IISC, Bangalore, Karnataka)
- Dr. Cibir T.R.**
(University of Colorado School of Medicine, USA)
- Dr. Vibin M.** (South Dakota State University, USA)
- Dr. Rajmohan V.** (Govt. Ayurveda College, Trivandrum)
- Dr. K. Jagannathan**
(Vice Principal, Santhigiri Siddha Medical College)

PROGRAMME SCHEDULE

DAY 1

- 08 : 30 am :Registration
09 : 30 am :Inaugural Ceremony
11 : 00 am - 04:30 pm :Invited Talks
02 : 00 pm - 05 : 00 pm :Oral Presentation (Venue-2)
04 : 30 pm - 05 : 30 pm :Poster Presentation

DAY 2

- 09 : 30 am - 05 : 00 pm :Invited Talks
09 : 30 am - 05 : 00 pm :Oral Presentation (Venue-2)

CALL FOR PAPERS

Authors are invited to send the soft copy of the abstract of their research work not exceeding 250 words in MS-word format. Soft copy should be sent to biochemistrystep@gmail.com. The abstract should have title, authors name and affiliations, full address for corresponding including fax, phone no/mobile and email.

Selected papers will be peer reviewed by international experts before publication and it published in Inter disciplinary research journal "STARS" (ISSN0973-7804)

POSTER PRESENTATION

The poster should be in 120 x 80 cm (Length x Breadth) in size. It should be organized into introduction, materials & methods, results, discussion and references. The matter should be brief with illustrations, graphs and photographs should be printed

REGISTRATION FEES

	FACULTY	STUDENTS
PARTICIPATION	Rs. 1000/-	Rs. 500/-
ORAL/POSTER PRESENTATION	Rs. 1500/-	Rs. 600/-

IMPORTANT DATES

Last date for abstract submission : 25th August, 2017
Notification of abstract acceptance : 30th August, 2017
Last date for registration : 3rd September, 2017

BISHOP VAYALIL MEMORIAL AWARDS

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SMPB/KL/20/2017/P- IEC - 1

Dt. 12/10/2017

The Principal
St. Thomas College, Pala,
Kottayam

Sir,

Sub: - Project proposal for International conference on Traditional and Alternative Medicine (ICTAM-2017)- sanction order-- reg.

Ref: -1) Project proposal submitted to the State Medicinal Plants Board.

2) Decision of the State Level Screening committee meeting dated 10/08/2017.

Kind attention is invited to the subject and reference cited above. I am to inform that the project proposal submitted by your institution has been approved by the State Level Screening Committee and sanctioned for an amount of Rs.50, 000/- (Rupees Fifty thousand only). You are requested to take up follow up action for the successful conduction of the workshop.

Your project No. is **SMPB/KL/20/2017/P- IEC - 1**. Please quote the Project No. for all future correspondence

You are requested to submit the following documents to this office on or before **30/10/2017** for releasing the grant-in-aid.

1. A bond in the prescribed format in stamp paper worth Rs.50-(Format enclosed)
2. A stamped pre- receipt for Rs.50,000/- (Rs.1/- revenue stamp affixed)
3. A certificate stating that Institution/Organization is not involved in any proceeding relating to the account or conduct for any of its office bearers.
4. An undertaking that the terms and conditions of the grant are acceptable to the organization.
5. A certificate stating that the organization has not received any grant from State or Central govt. for the same proposal. (If your organization is receiving fund from other govt. institution, the details may please be furnish to this office.)

Yours faithfully

(Signature)

Chief Executive Officer. (1/c)

✓ Copy to : Dr. Ratheesh M. Associate Prof. St. Thomas College, Pala, Kottayam for Information.

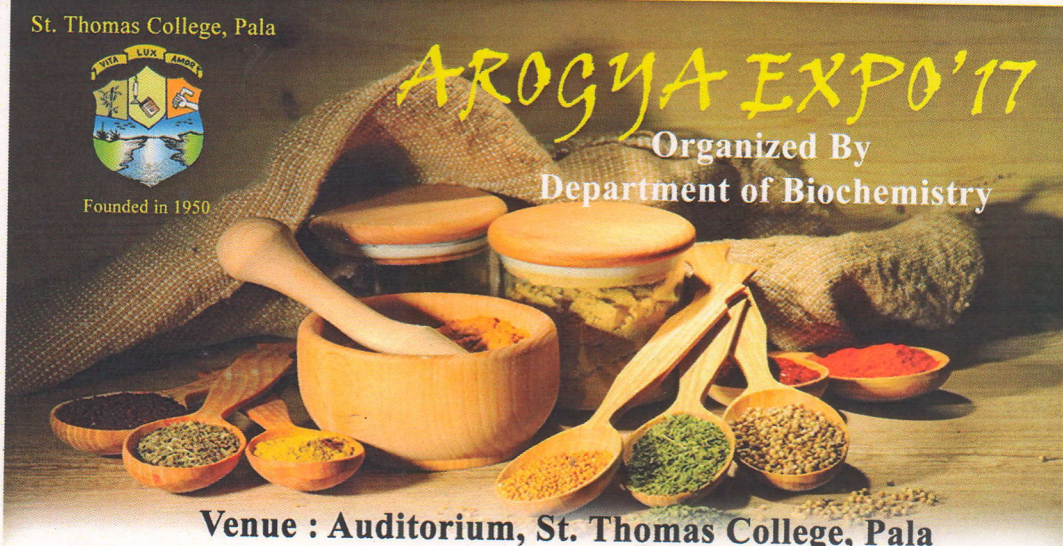
St. Thomas College, Pala



Founded in 1950

AROGYA EXPO'17

Organized By
Department of Biochemistry



Venue : Auditorium, St. Thomas College, Pala

Date : 18th & 19th September, 2017

IN ASSOCIATION WITH



Ayurveda Medical Association of India Siddha Medical Association of India Indian Homeopathic Medical Association

PROGRAMMES

- Medicinal Plant Exhibition
- Exhibition of Dried Samples
- Exhibition of Ayurveda Ashtangas
- Siddha Expo on 'Maruthvam'
- Exhibition on Homeopathic Practice
- Exhibition on Unani practice
- Anatomy Exhibition
- Exhibition cum Sale of Ayurvedic & Natural Products

Free Speciality Medical Camp

- General Medicine • Orthopedic
 - Sports Medicine • Pediatrics
 - Ano Rectal Treatment
 - Toxin Treatment
 - Women Health & Fertility
- Brainstorming Sessions
- Interaction with Expert Doctors from Ayurveda, Siddha, Homeopathy & Unani

Awareness Classes: • Cancer • Diabetes • Heart Disorders • Life style Disorders
• Yoga & Health • Adolescent & Teenage Problems

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For Correspondence : Dr. Ratheesh M, Ph: 8281978453, 9495751779

A three-day Science Academies' Lecture Workshop

on

'Recent Advances in Chemical Sciences'

A three-day Science Academies' Lecture Workshop on 'Recent Advances in Chemical Sciences', sponsored by Indian Academy of Sciences, Bangalore; Indian National Science Academy, New Delhi and the National Academy of Sciences India, Allahabad, was organised by the Department of Chemistry, St. Thomas College, Pala, Kottayam District, Kerala at St. Thomas College, Pala during 13-15 June 2017. Dr. K. R. Gopidas, Fellow of the Indian Academy of Sciences, Bangalore and Chief Scientist, Chemical Sciences and Technology Division, National Institute for Interdisciplinary Science and Technology (NIIST- CSIR), Thiruvananthapuram was the Convener of the Lecture Workshop. Dr. G.D. Gem Mathew, Associate Professor, Department of Chemistry, St. Thomas College, Pala was the Co-ordinator.



Resource Persons

The following six nationally reputed professors/scientists in Chemistry were the resource persons:

1.	Prof. (Dr.) Uday Maitra	Dept. of Organic Chemistry IISc, Bangalore
2.	Prof. (Dr.) R.B. Sunoj	Dept. of Chemistry

		IIT Bombay
3.	(Dr.) Aninda J. Bhattacharyya	Solid State and Structural Chemistry Unit IISc, Bangalore
4.	Dr. Subi Jacob George	New Chemistry Unit JNCASR, Bangalore
5.	Dr. Joshy Joseph	Photosciences & Photonics, NIIST (CSIR), Trivandrum
6.	Dr. Kana M. Sureshan	School of Chemistry IISER Thiruvananthapuram

INTERNATIONAL SEMINAR

2018
FEBRUARY
1,2,3



VISION EXPERIENCE NARRATION

NEW TRENDS IN LITERARY DISCOURSES

Organized by



PG and Research Department of Malayalam
St. Thomas College, Pala, Kerala, INDIA

In Collaboration with



Kerala Lalithakala Akademi
Thrissur, Kerala, INDIA

Second Announcement

Sir/Madam,

P. G and Research Department of Malayalam, St. Thomas College Pala in association with Kerala Lalithakala Akademi is conducting a three day international seminar from 1 to 3 February 2018. The Seminar probes into the paradigm shifts in art and literature across the globe. The literary horizons keep on expanding. This seminar incorporates scholarly talks and discussions that delve deep into the subtleties of these evolving trends. We cordially invite you to this seminar.

Dr. Joy George

Principal
St. Thomas College Palai

Dr. Davis Xavier

HOD, Malayalam
St. Thomas College Palai

Dr. Thomas Scaria

Coordinator
St. Thomas College Palai

Conveners	Accommodation	Registration	Organising Committee
Prince Mon Jose Fr. Salvin K Thomas Athira K R	Dr. Suvarnani Devi E Mini Mariya Afina Mary	Soumya Jose Tony Joseph Sreekutty Thankappan	Dr. Sabu De Mathew Sojan Pullattu Siju Joseph

Last Date for Submission of Full Paper: 2018 January 5

For Copies of proceedings
Please Contact: 9497664363, 8547298464

International seminar on
“Vision Experience, Narration: New Trends in Literary Discourse”
on 1 to 3 February 2018

Malayalam Department of St Thomas college Palai conducted an international seminar in collaboration with Kerala Lalitakala Academy from 1st February to 5 on the topic “Vision Experience, Narration: New Trends in Literary Discourse”. Mar Joseph Pallickaparambil inaugurated the seminar on February 1st at the library hall. The famous Critic Dr.C.B Sudhakaran Manonmaniam, University research guide Dr Prameela Mahesh, Literary Critic Prof A.P Sasidharan, College Principal Dr.Joy George, Vice Principal Rev.Dr.James John Mangalath, Bursar Fr.Mathew Kavanadi are among those who spoke. On January 15th there was a preseminar talk by Norbert Wessel on the topic “German Culture and Literature”. As part of the seminar Fr.Sebastian translated Wessel’s speech for the participants. As many as 200 academics across the world presented their paper in the seminar. The Dean of Faculty of Theology and Religion studies leuven Belgium, Prof Mathijis Lamberighs delivered the key note address on the topic “The Struggle with a Changing World: Augustine’s Autobiography”. The valedictory session was inaugurated by the renowned short story writer and novelist N.S Madhavan. Rev.Thomas vadakkal lecturer Pourasthya Vidhyapitam Vadavathoor (Greco-Roman Literature in copus paulinum), Dr.K.K Sivadas from Kannur university(post humanism in short story) and Dr.R V M Divakaran from Calicut university(Emogi Studies) delivered their talks. Department arranged a special video conference session for university professors in which shared their thoughts effectively.



Dr.Thomas Scaria co-ordinated the international seminar. Kerala Lalithakala Academy organized a painting workshop *Chithrachaithram*. The faculty members of the Fine Arts Colleges of the Kerala participated in it and they conducted a painting exhibition. The art fest *sargasara* by the students from the department of malayalam add more colour to the seminar.

**Three - day training on
'Data Analysis using R'
on
18-20 September 2017**

A Three – day training on 'Data Analysis using R' was organized in collaboration with CMC, Vellore during 18-20 September 2017. The Resource persons are: Dr. L Jayaseelan, Dr. Tunny Sebastian and Ms. Thenmozhi, CMC, Vellore. Total number of participants was 34. Dr. Joy George, Principal, inaugurated the ceremony.

Two - Day Training Programme on 'Advanced SAS'

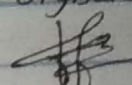
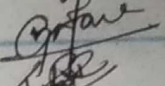
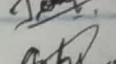
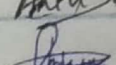
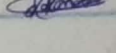
Two Day Training Programme on 'Advanced SAS' in collaboration with CMC, Vellore held in November 2017 and the resource persons were Ms. Thenmozhi and Mrs. Ambily Nadaraj. Total number of participants was 67. Dr. Joy George, Principal, inaugurated the workshop and Dr K K Jose delivered the presidential address.

Two day training program on "Advanced sts"
in collaboration with Christian Medical College, Vellore
15-16 November 2017 by

Ms. Thenmozhi and Mrs. Ambily Nadaraj, C.M.C. Vellore

Sl. No	Name of the participant	Class	Signature
1	S. Prina	II M.Sc. Bio Statistics	S. Prina
2	Seemya Thomas)	Seemya
3	Ann Elizabeth Thomas	I M.Sc. Biostatistics	Ann
4	Divya Kuttanahil Andrews	I M.Sc. STATISTICS	Divya
5	Christine James	II M.Sc. statistics	Christine
6	Ankitha Tom	I M.Sc. STATISTICS	Ankitha
7	Divya Vijay	I M.Sc. STATISTICS	Divya
8	Aarjisha Ali A	II M.Sc. Biostatistics	Aarjisha
9	Suhanya S	II M.Sc. Statistics	Suhanya
10	Geethika V. Nair	I M.Sc. Statistics	Geethika
11	Sujitha selvakumar	I M.Sc. Biostatistics	Sujitha
12	Nimi Mohan	II M.Sc. Biostatistics	Nimi
13	Shilpa Suresh	I M.Sc. Statistics	Shilpa
14	Amal Jacob	II M.Sc. Statistics	Amal
15	Alphonsa George	II nd M.Sc. Statistics	Alphonsa
16	Angus V. Sajeev	I M.Sc. Biostatistics	Angus
17	Tosna Jose	I M.Sc. Biostatistics	Tosna
18	Dhanya C	II nd M.Sc. Biostatistics	Dhanya
19	Sarath Mohan	I M.Sc. Biostatistics	Sarath
20	Anoop Jose	II nd M.Sc. Biostatistics	Anoop
21	Ananthu Ramachandran	I M.Sc. Statistics	Ananthu
22	Sanoop Thomas	I M.Sc. Biostatistics	Sanoop
23	Josemon Achenkundu	I M.Sc. Biostatistics	Josemon
24	Ivy Mathew	I M.Sc. Biostatistics	Ivy
25	Sara Nazim	II nd M.Sc. Statistics	Sara
26	Aarathy Vijayar	"	Aarathy
27	Geetha Jacob	2 nd M.Sc. Biostatistics	Geetha
28	Jophiel Jacob Joy	1 st M.Sc. Biostatistics	Jophiel
29	Jimbu Mathew	II M.Sc. STATISTICS	Jimbu
30	Riya Benny	"	Riya
31	Anitha P. Thomas	"	Anitha

Sl.No	Name of the participant	Class	Signature
32. ✓	Anna Elizabeth	II nd Msc statistics	
33. ✓	Dona Maria Philip	II nd Msc Biostatistics	
34. ✓	Reshma K.R.	I Msc Statistics	
35. ✓	Dennis Mathew	I Msc statistics	
36. ✓	Sherin Manichen	I Msc. Biostatistics	
37. ✓	Sejil Mariya Sebastian	"	
38. ✓	Sandra V.S.	"	
39. ✓	Aswathy C.A	I Msc. statistics	
40. ✓	Dona. Toms	I Msc. Biostatistics	
41. ✓	Jibin. K. Benny	II Msc Biostatistic	
42. ✓	Anjana. Jose	II "	
43. ✓	Lakshmi Rajeev	II Msc Statistics	
44. ✓	Manju. L	II MSc Biostatistics	
45. ✓	Ashly Mathew	I MSc Statistics	
46. ✓	Maya PG	I MSc Biostatistics	
47. ✓	Amalandha Aji	"	
48. ✓	Devoo Mariam	I Msc Statistics	
49. ✓	Kanika Jose	II nd m.sc. Biostatistics	
50. ✓	Arja. C. Soman	I Msc Statistics	
51. ✓	Jithin Thomas	I Msc Biostatistics	
52. ✓	Anju. S	I m.s.c. statistics	
53. ✓	Aswathy. P.S	II Msc. statistics	
54. ✓	Annu Baby	I Msc Biostatistics	
55. ✓	Aimy Jose	I M.sc statistics	
56. ✓	Alphy Sunny	I Msc statistics	
57. ✓	Billy. M Rose	II nd Msc Biostatistics	
58. ✓	Dona Antonys	I msc Biostatistics	
59. ✓	Anya devi k.s	II Msc Biostatistics	
60. ✓	Lakshmi S	I st Msc. Biostatistics	
61. ✓	MERLIN MARY JOY	I. Msc. BIostatistics	
62. ✓	LEONY TOM	I. Msc. BIostatistics	

Sl. No	Name of participant	Class	Signature
68	✓ Elizabeth Varghese	I MSc. Biostatistics	
69	✓ Geeshma Maria Jose	I M.Sc Biostatistics	
65	✓ Jishraj V.R	II nd "	
66	✓ Antu Maria Anto	I M.Sc Biostatistics	
67	Abhirami.M	I MSc Statistics	



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Newsletter

Vol. XX

No.1

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2017-'18

Principal's Message

Aspiring to be the Best



The academic year 2017-18 was eventful for our college in both academic and co-extra curricular aspects. The close rapport built up among the stakeholders of this mighty institution of higher learning in central Kerala, which enjoys an enviable track record in academic and allied accomplishments, has enabled us to scale new heights and plunge into more luminous depths of intellectual enterprise. From the treasure-troves of academic sedulity our adept philomaths could unearth bona fide prizes of scholarship.

As we all are patently aware, academic pursuit, the earnest search for knowledge, is shared metier where frontiers are pushed back. In the St. Thomas College family we always uphold the primacy of developing a close rapport between the mentors and the mentees, i.e. our teachers and our students. The responsibilities we took over and our achievements for the year were exciting, remarkable and indeed challenging. Thanks to the dedicated work of our Principal Dr. Joy George and the faculty, St. Thomas community was able to scale the towering heights of success in academic and co-curricular activities.

Last year our college organised a number of international / national conferences and symposia on recent developments in humanities, science and technology. Quite a few research papers in international / national journals have been published by our faculty members and research scholars. Also, papers were presented and invited lectures delivered by our teachers at seminars / workshops at universities, national institutes and other colleges within and outside the state. Three of our teachers were awarded Ph.D. last year.

In the domain of socio-cultural activities our departments organised intercollegiate fests, contests and other programmes. In sports, in the year 2017-18, our teams stood first in several tournaments and championships. Some of our sports persons won medals in championships at national level. A number of events such as intercollegiate and zonal tournaments, championships, camps etc. were organised by our Physical Education Department.

In M. G. University, at PG and UG levels, a good number of our students won top positions. This year we had a substantial number of publications from the campus. There were literary journals, books including textbooks etc. edited / authored by our faculty members. In the co-curricular and extra curricular fields our excellence was attested by the activities of various departmental associations, the NCC, the NSS, the College Union, the RACS Cell, the Faculty of Religion, the PTA, the Alumni Association etc.

The academic year has had its list of losses too. Eight of our eminent teachers and four non-teaching staff members retired from service. I remember their meritorious service with a deep sense of gratitude. Six retired teachers and a former non-teaching staff member were called to eternal rest this year. I pray for the repose of the departed souls.

I assumed the office of Principal on April 1, 2018. Our new Vice-Principal Dr. Sunny Kuriakose also took charge on the same day. I whole heartedly thank Dr. Joy George, our distinguished Principal during 2017-18 for all his support and positive encouragement. I take this opportunity also to thank all the teaching and non-teaching staff members of our college for their unstinting support extended to me during my stint as Vice-Principal of the College. I now request your undivided support and prayers as I take on the new responsibility.

I thank Almighty God for all His blessings and guidance. I remember all my colleagues and students and say a prayer of grateful thanks. I also thank our Patron H.E. Mar Joseph Kallarangatt and our Manager H.E. Mar Jacob Muricken for their paternal support and encouragement.

Rev. Dr. James John Mangalathu

67th Foundation Day Celebrated

St. Thomas College, the sparkling diamond in the crown of the Diocese of Palai, was founded by H. E. Bishop Mar Sebastian Vayalil on 16 April 1950 and inaugurated on 7 August 1950. Very Rev. Msgr. Emmanuel Mecherikunnel, Rev. Fr. Jacob Thazhathel, Sri. George Thomas Kottukapally, Sri. Cherian J. Kappen, Sri. R. V. Thomas, Sri. K. M. Chandy and others joined hands with the bishop in realizing this long cherished dream. The College has emerged as a leading centre of higher education moulding the lives of thousands of students with an agrarian rural background in the central part of Kerala. The College, which entered the new millennium under the patronage of H. E. Bishop Mar Joseph Pallikaparampil, is now administered by the able hands of H. E. Bishop Mar Joseph Kallarangatt (Patron), H. E. Bishop Mar Jacob Muricken (Manager), Very Rev. Dr. K. M. Joseph Kollamparampil (Pro-Manager) and Dr. Joy George (Principal).



Dr. Babu Sebastian, Hon'ble Vice Chancellor, inaugurates the 67th Foundation Day celebrations

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SEMINARS, CONFERENCES, WORKSHOPS AND LECTURES

International Conference on Recent Advances in Statistical Methodology



Dr. Barry D. Nussbaum, President of American Statistical Association, inaugurates the International Conference

An International Conference on Recent Advances in Statistical Methodology with Applications in Clinical and Official Statistics was organized by the Department of Statistics in collaboration with the Department of Mathematics and Statistics, University of Maryland, Baltimore County, USA and the Department of Biostatistics, Christian Medical College, Vellore, India during 3-5 January 2018. The sponsors of the conference were the Department of Science and Technology, Government of India; the Ministry of Statistics and Programme Implementation (MoSPI), Government of India and the Kerala State Council for Science, Technology and Environment, Govt. of Kerala. The two main themes of the conference were clinical statistics and official statistics. The Conference was attended by about 130 dele-

gates, of which more than 20 were from abroad. There were plenary talks, invited talks and contributory presentations.

The Conference was inaugurated by Dr. Barry D. Nussbaum, President of American Statistical Association, at a glittering function in which eminent statisticians Prof. B. K. Sinha (University of Maryland) and Prof. John M. Lachin (George Washington University) addressed the gathering. Dr. Barry D. Nussbaum cited two eye-opening examples when American Statistical Association came up with appropriate statistical methods to deal with two very serious problems faced by the American Government and earned immediate recognition. Dr. Thomas Mathew (University of Maryland), Dr. Ionut Bebu (George Washington University), Dr. K. Krishnamoorthy (University of



A view of the distinguished delegates who attended the inaugural function



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Speakers at the International Conference



Dr. Barry D. Nussbam
President, American Statistical Association



Prof. B. K. Sinha
University of Maryland, USA



Prof. John M. Lachin
George Washington University, USA



Dr. Thomas Mathew
University of Maryland, USA



Dr. Sunitha Bhaskar
Deputy Director, MoSPI, Govt. of India

Louisiana), Dr Suchindran C.M. (University of North Carolina) and Dr. Viswanath Iyer (Novartis Healthcare, India) were the key speakers on clinical statistics. Sessions on official statistics were mainly handled by officials from MoSPI. Dr. James Mathew, Deputy Director General, and Dr. Sunitha Bhaskar, Deputy Director from the Ministry of Statistics and Programme Implementation were the prominent speakers on official statistics.

The important topics discussed under clinical statistics were Challenges in the new era of personalized medicine, Cost-effective screening schedules for disease progression analysis, Applications of data mining in cancer survival, Modelling of epidemic outbreak data, Multivariate reference regions in laboratory medicine, Modelling of Self-Reported and Proxy Responses in Medical Treatment, The Vision of the South Asian Cochrane Center, and Some new statistical methods for the analyses of medical data. Some of the topics discussed under official statistics were Data analyses under confidentiality protection, National monitoring framework on sustainable development goals, Role of civil registration and vital statistics in

monitoring sustainable development goals, Revelations on the health indicators of Kerala from the 4th(2015-'16) National Family Health Survey and The role of statisticians in big data analyses.

Unlike other conferences being organized in academic institutions, this conference offered a unique opportunity for people from academic, industry and government sectors to sit together and discuss current statistical issues. There were three venues for parallel sessions and a total of twenty-four technical sessions were conducted. The support given by Christian Medical College, Vellore, is to be specially mentioned. The conference coincided with the 59th year of service of the Department of Statistics of the College. Dr. Sebastian George (Associate Professor, Department of Statistics) was the Chief Co-ordinator of the international conference.



Dr. Sebastian George
Chief Co-ordinator



Participants of the International Conference

Exuberanza - International Seminar on New Trends in Literary Discourse



H.E. Mar Joseph Pallikaparampil inaugurates the international seminar

The Department of Malayalam organised an International Seminar on New Trends in Literary Discourse titled *Exuberanza* during 1 to 5 February 2018, in collaboration with the Kerala Lalithakala Academy, Thrissur. The seminar was intended to probe into the paradigm shifts in art and literature across the globe. The seminar incorporated scholarly talks and discussions that delved deep into the subtleties of the evolving trends in the literary horizons.

The international seminar was inaugurated by H. E. Mar Joseph Pallikaparampil, Bishop Emeritus of Palai, on 1 February 2018. Noted writer Sri. N. S. Madhavan and Dr. Babu Sebastian, Hon'ble Vice Chancellor, Mahatma Gandhi University, Kottayam were the chief guests at the inaugural function. Invited lectures were delivered by Prof. Dr. Mathijs Lamberigts, Dean of the Faculty of Theology and Religious Studies, K. U. Leuven, Belgium, on the topic 'The Struggle with a Changing World : Augustine's Autobiography'; Fr. Norbert Wessel, Emsdetten, Germany, on the topic 'Germany - the Land of Poets and Thinkers'; Rev. Dr. Thomas Vadakkal, Paurastya Vidyapitham, Vadavathoor, on the topic 'Greco - Roman Literature and Culture in

the Corpus Paulinum', Dr. K. K. Sivasdas, Kannur University, on the topic 'Posthumanism in Short Story', Dr. R. V. M. Divakaran, University of Calicut, on the topic 'Methods of Film Studies' and Fr. Sebastian Myladiath, Emsdetten, Germany. The plenary lectures were delivered by Prof. Dr. Ekaterini Tsalampouni, Aristotle University of Thessaloniki, Greece, on the topic 'Literature and Culture in the Context of Greece'; Prof. Dr. Idesbald Goodeeris, Katholieke Universiteit Leuven, Belgium, on the topic 'Literature and Culture in the European Context'; Fr. Joseph Karikulam, Pontificio Ateneo Regina Apostolorum, Rome, on the topic 'Indian Culture and History of the 16th Century' and by Fr. Manoj Francis, Katholieke Universiteit Leuven, Belgium, on the topic 'Literature and Ethics'. Paper presentations were conducted by Dr. Prameela Mahesh, Dr. Haskerali E. C., Dr. A. P. Sasidharan, Sri. Rajendran Edathumkara, Sri. Anup Antony, Dr. Sunil Jose, Sr. Ciby Kurian, Dr. Jose K. Manuel, Dr. Deepesh Karimpumkara and Dr. Binu M. Mathew.

Along with the international seminar, a painting biennale titled 'Chithrachaitram' was held during 1-3 February 2018. It was curated by the master artists Sri. Neman Pushparaj, Sri. Ponniam Chandran, Sri. V. R. Santhosh and Sri. C. S. Jayaram. In addition, a cultural evening titled 'Sargasaras' was held on 2 February 2018. Dr. Thomas Scaria, Assistant Professor, Dept. of Malayalam, was the Chief Co-ordinator of the international seminar.



Participants of the painting biennale with the Principal and Malayalam faculty



Dr. Thomas Scaria
Chief Co-ordinator

International Conference on Traditional and Alternative Medicine (ICTAM-2017)



Padma Sri Dr. P. R. Krishnakumar inaugurates the international conference

The Department of Biochemistry organised an International Conference on Traditional and Alternative Medicine (ICTAM - 2017) on 18 and 19 September 2017. The theme of the international conference was 'To Traverse the Future of Alternative Medicine'. In the two-day meet of ICTAM- 2017, a variety of special areas were covered including Herbal therapy, Ayurveda, Homoeopathy, Ethno-pharmacology and many more exciting areas. The endeavour was inaugurated by Padma Sri Dr. P.R. Krishnakumar, Chancellor, Avinashalingam University, Coimbatore & Founder of AVP Research Foundation. In the plenary session, Dr. Muhammed Majeed, Founder & MD of Sami Labs Ltd. Bangalore & winner of Ellis Island Medal awarded by US Congress and Daniel Statesman Award 2010 from USA, felicitated and spoke about the scope of nutraceuticals and also about the vision of a research scientist and how a passionate entrepreneur takes on social and commercial expressions. Students, researchers and faculty members from various universities and colleges inside and outside India participated in the conference. Overall there were one keynote speaker, one plenary speaker, 13 invited speakers and 480 participants in the two- day conference. The keynote speaker was Dr. Samson Mathews Samuel from Weill-Cornell University, Qatar, who delivered a talk on 'Anti-angiogenic effects of metformin in 2-deoxyglucose treated microvascular endothelial cells: Role of thrombospondin-1'. The plenary speaker was Dr. S.Sasidharan from Universiti Sains, Malaysia, who spoke about 'The green cancer prevention: An opportunity to expand the cost-effective medicinal plant-based therapeutics'. Dr. K. Radhakrishnan, Chief Executive Officer (IC), SMPB, Kerala, India, presented a paper on the topic 'Problems and prospects of traditional medicine with reference to Kerala state, India'. Other invited speakers from various parts of the world were Dr.



Dr. P.R. Krishnakumar delivers the inaugural address

Roonie Moore (University College, Dublin, Ireland), Dr. Anirban Sukul (Hon'y Physician, Ministry of Public Health, Govt of Thailand), Dr. D. Suresh Kumar (Head of Product Development, Cymbio Pharma Pvt. Ltd., Bangalore), Dr. P. G. Biju (Assistant Professor, Department of Biochemistry, Kerala University), Dr. Cibir T.R. (University of Colorado School of Medicine, USA), Dr. Rajmohan V. (Assistant Professor, Govt. Ayurveda College, Trivandrum), Dr. S. Sandhya (Scientist, Indian Institute of Science, Bangalore), Dr. K. Jagannathan (Vice Principal, Santhigiri Siddha Medical College, Trivandrum), Dr. Vibin M. (South Dakota State University, USA), and Sri. Sree Kumar (Processing Engineer, CDB, Cochin) who talked about various aspects of health related problems and also about role of alternative medicine. Dr. Ratheesh M., Asst. Professor, Department of Biochemistry, was the Co-ordinator of the international conference.



Dr. Ratheesh M.
Co-ordinator



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National Science Academies' Lecture Workshop on 'Recent Advances in Chemical Sciences'



H. E. Mar Jacob Muricken inaugurates the lecture workshop

A three-day National Science Academies' Lecture Workshop on 'Recent Advances in Chemical Sciences', sponsored by Indian Academy of Sciences, Bangalore; Indian National Science Academy, New Delhi, and the National Academy of Sciences India, Allahabad, was organised by the Department of Chemistry, during 13-15 June 2017. Dr. K. R. Gopidas, Fellow of the Indian Academy of Sciences, Bangalore and Chief Scientist, Chemical Sciences and Technology Division, National Institute for Interdisciplinary Science and Technology (NIIST-CSIR), Thiruvananthapuram, was the Convener of the lecture workshop. Dr. G.D. Gem Mathew, Associate Professor, Department of Chemistry, St. Thomas College, Pala, was the Co-ordinator.

Resource Persons

The following six nationally reputed professors/scientists in chemistry were the resource persons:

1.	Prof. (Dr.) Uday Maitra	Dept. of Organic Chemistry, IISc, Bangalore
2.	Prof. (Dr.) R.B. Sunoj	Dept. of Chemistry, IIT, Bombay
3.	Dr. Aninda J. Bhattacharyya	Solid State and Structural Chemistry Unit, IISc, Bangalore
4.	Dr. Subi Jacob George	New Chemistry Unit, JNCASR, Bangalore
5.	Dr. Joshy Joseph	Photosciences & Photonics, NIIST (CSIR), Trivandrum
6.	Dr. Kana M. Sureshan	School of Chemistry, IISER, Thiruvananthapuram



H. E. Mar Jacob Muricken presents a memento to Prof. (Dr.) I. Ibnusaud, Director, IIRBS, Mahatma Gandhi University



H. E. Mar Jacob Muricken presents a memento to Dr. K. R. Gopidas, Convener of the lecture workshop



Dr. K. R. Gopidas, Convener, presents mementos to the UGC-CSIR JRF awardees Mr. Jayakrishnan K. R. and Mr. Anish Babu

Inaugural Function

The Lecture Workshop was inaugurated on 13 June 2017 by H.E. Mar Jacob Muricken, Auxiliary Bishop of Palai and Manager of St. Thomas College, Pala. The Principal of the College, Dr. Joy George, presided over the function. Dr. K. R. Gopidas, Fellow of the Indian Academy of Sciences, Bangalore, and Chief Scientist, Chemical Sciences and Technology Division, National Institute for Interdisciplinary Science and Technology (NIIST-CSIR), Thiruvananthapuram, and Convener of the Lecture Workshop, delivered the introductory remarks. Dr. Aninda J. Bhattacharyya and Dr. Joshy Joseph, offered felicitations on the occasion. Dr. Sunny Kuriakose, Head, Department of Chemistry, welcomed the gathering and Dr. G.D. Gem Mathew, Co-ordinator, proposed the vote of thanks. Prof. (Dr.) I. Ibnusaud, Director of Institute for Intensive Research in Basic Sciences (IIRBS), Mahatma Gandhi University, Kottayam, who was recently elected as a Fellow of the National Academy of Science India (NASI), Allahabad, was felicitated on the occasion.

Technical Sessions

The programme schedule for the technical sessions was kept to without any change. On the first day of the Lecture Workshop, Dr. Aninda J. Bhattacharyya delivered two lectures on the topic 'Role of

Electrochemistry for Conversion of Waste to Bioelectricity & Chemicals', while Dr. Joshy Joseph delivered lectures on the topics 'Introduction to Carbon-based Functional Nanomaterials' and 'Graphene-based Hybrid Materials for Bio-sensing Applications'. On the second day, Prof. (Dr.) Uday Maitra delivered two lecture-demos on the topic 'Learning Chemistry with Fun', while Prof. (Dr.) R.B. Sunoj delivered lectures on the topics 'Introduction to Computational Chemistry' and 'Learning Organic Chemistry using Molecular Orbital Theory'. On the third and final day, the first two lectures were delivered by Dr. Suby Jacob George on the topics 'Dynamic Supramolecular Polymers' and 'How Far We Can Push the Molecular Self-assembly?'. It was followed by two lectures by Dr. K.N. Sureshan on the topics 'Topochemical Reactions for Synthesis of Biopolymer Mimics' and 'Sugar-based Organogels: Synthesis and Applications'. The sessions were all well attended by faculty, research scholars and postgraduate students from various institutes and colleges in Kerala.

Participants

There were about 125 participants on all the three days of the Lecture Workshop. These included 50 participants from the host institution – Department of Chemistry, St. Thomas College, Pala- and



Dr. Aninda J. Bhattacharyya presents to the M. Sc. Chemistry toppers Ms. Renitta Benny and Ms. Christin Mariya Davis



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Resource Persons of the Lecture Workshop



Prof. (Dr.) Uday Maitra, IISc, Bangalore



Prof. (Dr.) R. B. Sunoj, IIT Bombay



Dr. Aninda J. Bhattacharyya, IISc, Bangalore



Dr. Subi Jacob George, JNCASR, Bangalore



Dr. Joshy Joseph, NIIST (CSIR), Thiruvananthapuram



Dr. Kana M. Sureshan, IISER, Thiruvananthapuram

25 from Institute for Intensive Research in Basic Sciences (IIRBS), Mahatma Gandhi University. The other participants included teachers and research scholars from other institutes, colleges and higher secondary schools. The participants were of the opinion that topics of the lectures were up-to-date and very useful. They also suggested arranging follow-up programmes like refresher courses in the future.

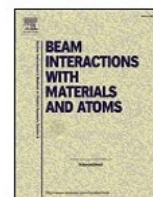
Concluding Session

The concluding session was held in the evening of 15 June 2017. The chief guest was Dr. Joy George, Principal of the College.

He delivered the valedictory address and presented certificates to the participants. Dr. Sunny Kuriakose, Head of the Department of Chemistry, welcomed the gathering. Dr. K.R. Gopidas, Convener, offered concluding remarks. Dr. Subi Jacob George gave feedback on behalf of the resource persons and Ms. Aina Elizabeth Antony gave feedback on behalf of the participants. Dr. G. D. Gem Mathew, Co-ordinator, proposed the vote of thanks.



Dr. G.D. Gem Mathew
Co-ordinator



Electron irradiation induced effects on the physico-chemical properties of L-Arginine Maleate Dihydrate (LAMD) single crystals

Prince Thomas^a, S.D. Dhole^b, Ginson P. Joseph^{a,*}

^a Department of Physics, St. Thomas College, Palai, Kerala 686574, India

^b Department of Physics, University of Pune, Pune 411007, India

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ABSTRACT

Single crystals of L-Arginine Maleate Dihydrate (LAMD) have been synthesized by slow solvent evaporation technique and irradiated with 6 MeV electrons at fluences of $0.5 \times 10^{15} \text{e/cm}^2$, $1.0 \times 10^{15} \text{e/cm}^2$ and $1.5 \times 10^{15} \text{e/cm}^2$. The Powder X-ray Diffraction (PXRD) studies showed that the intensity of the diffraction peaks of the Electron Beam (EB) irradiated crystals decreases with irradiation fluence. The electron irradiation induced effects on the optical parameters such as cut-off wavelength, band gap, Urbach energy and refractive index have been studied and the results are tabulated. The electronic parameters such as valence electron plasma energy, $\hbar\omega_p$, Penn gap, E_p , Fermi energy, E_F and Electronic polarizability, α for pure and irradiated LAMD crystals are calculated. The electrical and thermal properties of the pure and irradiated LAMD crystals are also investigated.

1. Introduction

Nonlinear optical materials based on amino acid complexes are intrigued by materials scientists due to high optical susceptibilities, ultrafast response, and high optical thresholds for lasers as compared with inorganic materials. The push-pull effect owing to proton donor carboxyl acid ($-\text{COO}$) group and the proton acceptor amino ($-\text{NH}_2$) group is the countenance of amino acid complexes. The $-\text{COO}$ group gives its proton to the amino group to form $\text{CH}_3\text{CHCOONH}_3^+$ and thereby creates a dipolar nature. The donor and acceptor groups provide the ground state charge asymmetry of the molecule, which is essential for second-order nonlinearity [1–4]. The α -amino group and guanidyl group present in the LAMD structure are protonated and the $C-N$ bond present in the guanidyl group is conjugated. The planar ring present in the LAMD structure is formed by sharing one hydrogen (H) atom between the oxygen (O) atoms in the carboxyl groups of the maleate anion. LAMD formed by the reaction of L-Arginine and Maleic acid belongs to the triclinic crystal system with cell parameters $a = 5.2710 \text{ \AA}$, $b = 8.0481 \text{ \AA}$, $c = 9.7942 \text{ \AA}$, $\alpha = 106.155^\circ$, $\beta = 97.265^\circ$ and $\gamma = 101.649^\circ$ [5]. L-Arginine Maleate Dihydrate (LAMD) is one of the prominent crystals of L-Arginine family having the SHG efficiency 1.5 times greater as compared to KDP crystals [6]. The nonlinear optical character of the LAMD is due to the intrinsic hyperpolarizabilities of the L-Argininium cations, Maleate anions and intermolecular hydrogen bonds [5]. The fundamental characterizations of LAMD have been already reported [6–11].

Recently, materials scientists are fascinated by the electron irradiations on solid samples because of its capability of tailoring the desired properties by varying the dosage or energy of the electron bombardment. The hardening and softening of metals are possible by electron irradiation [12]. M. J. Makin, and T. H. Blewitt [13] have successfully hardened the copper (Cu) single crystal by 4 MeV EB irradiation. The bombarded electrons may be trapped in various lattice imperfections and cause permanent changes in the material [14]. Electron beam irradiation enhanced the glide dislocations in GaAs single crystals [15]. The reduction in the optical band gap of iminodiacetic acid doped ferroelectric triglycine sulphate (IDATGS) is also observed with graded dosages of electron beam [16]. The SHG efficiency of 4-amino-5-mercapto-3-[1-(4-isobutylphenyl)ethyl]-1,2,4-triazole (AMIT) single crystals increased with increasing the dosages of electron irradiation [17]. From the literature survey, we came to know that the optical band gap, photoluminescence, thermal and electrical properties of crystalline materials, nanoparticles and polymer electrolytes can be tuned by EB irradiation [18–27]. Hence in this paper, an attempt has been made to modify the electrical, thermal and optical properties of LAMD crystals using electron irradiation by varying the irradiation fluence.

* Corresponding author.

E-mail address: ginsonpj@gmail.com (G.P. Joseph).

Fabrication of Al deposited sandwich capacitor structure with CdSe/PVA dielectric thin film by spin coating technique for high power applications: synthesis and characterizations

Jobin Job Mathen¹ · Ajith Thomas² · Augustine J. Edakkara² · Jose Sebastian³ · J. Madhavan¹ · Ginson P. Joseph²

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Abstract The capacitor structures were fabricated in the configuration of Al : CdSe/PVA : Al with CdSe/PVA as an insulating dielectric layer for high power applications. The sandwiched layer gave an excellent energy density and a better dielectric strength that was obtained from the amalgamation of CdSe and poly (vinyl alcohol). For the detailed analysis of the interaction between CdSe and PVA, transparent CdSe/PVA composites were synthesized by ultra-sonication technique with micrometer thicknesses at different wt% of CdSe. The UV absorption edge of PVA matrix corresponds to $\pi \rightarrow \pi^*$ transition associated with ethylene unsaturation (C=C) was analysed and it was shifted towards higher wavelength with the CdSe incorporation. The sub-band states formation was evaluated, Urbach energy was increased up to ~835 meV, and an increase in structural defect was noticed by widening the tail state within the polymer matrix with the impurity addition. Optical parameters which include extinction coefficient (k) and index of refraction (n) have been determined. Three dielectric relaxations were pronounced as α , β and interfacial polarization and the high relative permittivity and the low values of dissipation factor indicated that the dielectric phenomenon was predominant in all membranes. Inspection of electrical conduction rate to temperatures was also investigated and the temperature coefficient of capacitance and

temperature coefficient of permittivity were listed. Thermal stability could be enhanced with CdSe interaction and the variation in thermal parameters was discussed.

1 Introduction

Capacitors are important micro-electronic elements in electrical circuits, although they tend to be more bulkier than resistors, diodes and transistors, and having large energy density is the desired form in many power applications such as pulse-mode medical devices, electric guns, hybrid electronic vehicles, power grids and particle accelerates [1]. Due to the prerequisite of high capacitance and poor performance of electrical double layer capacitors at high frequencies, capacitors based on dielectrics are inevitable. In addition, the increasing energy density and volumetric efficiency of dielectric media are demanded for the high power applications.

For the power energy storage systems with high energy density have led to the development of polymer composite systems that combine the processability and breakdown field strength of the polymer with the high dielectric constant of ceramic fillers. Ferroelectric ceramics possess high dielectric constant but the low breakdown voltage limits their applications [2]. Ideally, the filler helps to increase the effective dielectric constant of the composite system without compromising the high inherent breakdown strength of polymers. Consequently, much research is being carried out for a better composite dielectrics. Lewis proposed that as the size of the filler particles decreases to the nano-region, the properties of the polymer-filler interface would become dominant [3, 4] and experimentally, this concept was explored by Sun et al. who studied the influence of the interface on the dielectric properties of

✉ Ginson P. Joseph
ginsonpj@gmail.com

¹ Department of Physics, Loyola College, Chennai, Tamilnadu 600034, India

² Department of Physics, St. Thomas College, Pala, Kerala 686574, India

³ Department of Polymer Science, University College of Engineering, Thodupuzha, Kerala 685587, India

Transparent ZnO–PVA binary composite for UV-A photo detector: optical, electrical and thermal properties followed by laser induced fluorescence

Jobin Job Mathen¹ · J. Madhavan¹ · Ajith Thomas² · Augustine J. Edakkara² · Jose Sebastian³ · Ginson P. Joseph²

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Abstract A compatible high performance UV-A sensor has been developed using poly(vinyl alcohol) (PVA)/ZnO membrane on an ITO substrate. The current challenges on UV-A photo detector have been overcome with the optimized performance of the binary composition through combining the wide-range of UV-A light photo-response, high sensitivity and quick response. This paper presents the electrical and optical properties of ZnO/PVA nanocomposites. It deals with the experimental correlation between complex optical conductivity and complex dielectric function. The ZnO filler is addressed to the modification in the band-structure, thermal properties and molecular orbital electron density. The defect states formation and laser induced fluorescence of composites were also investigated for the first time.

1 Introduction

Recently, materials scientists are fascinated by II–VI semiconducting nanoparticles because of their unique electronic and optical properties [1, 2] in several applications such as solar cells [3], light emitting devices [4], IR windows [5], sensors and displays [6]. The integration of polymer membrane with superior properties and nano-inclusion offers

new opportunities for designing next-generation electronic and optoelectronic devices. The interfacial interaction between the filler and the matrix results in a large improvement in the dielectric, optical and mechanical properties of composite systems dramatically since the composition greatly influences the functions of nano-hybrid materials [7–15]. Among the II–VI, ZnO nanoparticles find wide applications in electronic sensing devices including visible blind ultraviolet (UV) detectors [16], gas sensors [17], biosensors [18] and UV photo detectors [16, 19, 20]. ZnO nano-materials in particular, with a band gap of ~3.4 eV and an exciton binding energy of 60 meV, show great promise for UV sensors because of their relatively fast response and high on/off ratio [21–24]. However, the point defects, confirmed dimensionality and poor device performance hindered the further developments in making UV sensors. Zhang et al. [23] fabricated a ZnO tetrapod based multi-terminal sensor by E-beam lithography which followed a false response that holds back the practical application of the devices.

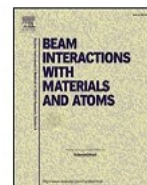
In UV radiation (200–400 nm) emitted by the sun, most of UV-C (200–290 nm) light and UV-B (290–320 nm) light can be absorbed by the molecules in sunscreen lotions and the earth's atmosphere respectively. The UV-A (320–400 nm) light reaches the earth's surface leading to skin cancer [25]. Although a large variety of UV detectors have been fabricated and studied, limited investigations on UV-A photo detectors have been done. The direct band gap II–VI semiconductors are the most important materials for UV-A photo detectors [26–29], nevertheless a slow response speed and poor photo current stability [27] limit further developments. The shortcomings of the II–VI semiconductors can be overcome when the ZnO is uniformly dispersed in PVA. Due to the attractive physical properties, elegant film forming, biocompatibility and

✉ Ginson P. Joseph
ginsonpj@gmail.com

¹ Department of Physics, Loyola College, Chennai, Tamilnadu 600034, India

² Department of Physics, St. Thomas College, Pala, Kerala 686574, India

³ Department of Polymer Science, University College of Engineering, Thodupuzha, Kerala 685587, India



Electron irradiation induced effects on the physico-chemical properties of L-Arginine Maleate Dihydrate (LAMD) single crystals

Prince Thomas^a, S.D. Dhole^b, Ginson P. Joseph^{a,*}

^a Department of Physics, St. Thomas College, Palai, Kerala 686574, India

^b Department of Physics, University of Pune, Pune 411007, India

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ABSTRACT

Single crystals of L-Arginine Maleate Dihydrate (LAMD) have been synthesized by slow solvent evaporation technique and irradiated with 6 MeV electrons at fluences of $0.5 \times 10^{15} \text{e/cm}^2$, $1.0 \times 10^{15} \text{e/cm}^2$ and $1.5 \times 10^{15} \text{e/cm}^2$. The Powder X-ray Diffraction (PXRD) studies showed that the intensity of the diffraction peaks of the Electron Beam (EB) irradiated crystals decreases with irradiation fluence. The electron irradiation induced effects on the optical parameters such as cut-off wavelength, band gap, Urbach energy and refractive index have been studied and the results are tabulated. The electronic parameters such as valence electron plasma energy, $\hbar\omega_p$, Penn gap, E_p , Fermi energy, E_F and Electronic polarizability, α for pure and irradiated LAMD crystals are calculated. The electrical and thermal properties of the pure and irradiated LAMD crystals are also investigated.

1. Introduction

Nonlinear optical materials based on amino acid complexes are intrigued by materials scientists due to high optical susceptibilities, ultrafast response, and high optical thresholds for lasers as compared with inorganic materials. The push-pull effect owing to proton donor carboxyl acid (–COO) group and the proton acceptor amino (–NH₂) group is the countenance of amino acid complexes. The –COO group gives its proton to the amino group to form $\text{CH}_3\text{CHCOONH}_3^+$ and thereby creates a dipolar nature. The donor and acceptor groups provide the ground state charge asymmetry of the molecule, which is essential for second-order nonlinearity [1–4]. The α -amino group and guanidyl group present in the LAMD structure are protonated and the C–N bond present in the guanidyl group is conjugated. The planar ring present in the LAMD structure is formed by sharing one hydrogen (H) atom between the oxygen (O) atoms in the carboxyl groups of the maleate anion. LAMD formed by the reaction of L-Arginine and Maleic acid belongs to the triclinic crystal system with cell parameters $a = 5.2710 \text{ \AA}$, $b = 8.0481 \text{ \AA}$, $c = 9.7942 \text{ \AA}$, $\alpha = 106.155^\circ$, $\beta = 97.265^\circ$ and $\gamma = 101.649^\circ$ [5]. L-Arginine Maleate Dihydrate (LAMD) is one of the prominent crystals of L-Arginine family having the SHG efficiency 1.5 times greater as compared to KDP crystals [6]. The nonlinear optical character of the LAMD is due to the intrinsic hyperpolarizabilities of the L-Argininium cations, Maleate anions and intermolecular hydrogen bonds [5]. The fundamental characterizations of LAMD have been already reported [6–11].

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* Corresponding author.

E-mail address: ginsonpj@gmail.com (G.P. Joseph).

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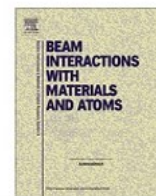
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⁵ Center for Advanced Materials, Qatar University, 2713 Doha, Qatar

⁶ Department of Mechanical and Industrial Engineering, Qatar University, 2713 Doha, Qatar



Modification of the electrical, optical and thermal properties of L-Arginine Perchlorate single crystals by 5 kGy and 8 kGy electron beam irradiation for optoelectronic devices

Prince Thomas^a, R. Santhosh Kumar^b, G. Sreekanth^c, Bitto John^a, Ganesh Sanjeev^d, Ginson P. Joseph^{a,*}

^a Department of Physics, St. Thomas College, Palai, Kottayam, Kerala 686574, India

^b Department of Physics, St. George's College, Aruvithura, Kottayam, Kerala 686122, India

^c Department of Basic Sciences and Humanities, Mangalam College of Engineering, Ettumanoor, Kottayam, Kerala 686631, India

^d Microtron Centre, Department of Physics, Mangalore University, Mangalagangothri, Karnataka 574 199, India

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ABSTRACT

This paper attempts to elucidate the effect of 5 kGy and 8 kGy electron irradiation on the optical, thermal and electrical properties of a prominent amino acid crystal, L-Arginine Perchlorate (LAPCI) grown by low-temperature solution growth technique. Optical absorption studies revealed that the UV lower cut-off wavelength shift towards the higher wavelength region (Red shift), the optical band gap of LAPCI were found to be decreasing while the Urbach energy was found to be increasing with increasing the dosage of irradiation. Fourier Transform Infrared (FT-IR) spectroscopic result showed that peak intensities corresponding to typical bonding increase with the increase in electron beam irradiation dosage. Electrical studies revealed that the dielectric constant, loss and conductivity of the sample increases with increasing the dosage of irradiation. The behaviour of electrical properties on temperature and thermal properties has also been investigated.

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1. Introduction

In this era of information and communication technology, scientists are very much attracted towards the developments in nonlinear optical (NLO) materials due to its potential applications in the field of optical modulation, optical switching, frequency shifting and optical data storage [1,2]. Among the NLO crystals, amino acid family crystals much-attracted crystal growers since these crystals have the advantages of high optical nonlinearity of organics and flattering physico-chemical properties of inorganic solids. The chiral carbon atom, the proton donor carboxyl group (–COOH) and the proton acceptor amino group (NH₂) present in the amino acid family crystals aids them to crystallize in noncentrosymmetric space group and makes them suitable for NLO applications [2]. Semi organic amino acid complex single crystals possess enhanced physico-chemical properties compared to the amino acid single crystals in its pristine form. L-Arginine

Perchlorate (LAPCI) is a prominent semi organic nonlinear optical crystal belongs to the LAP family, having all the above-mentioned properties. LAPCI crystallizes in the orthorhombic crystal system with noncentrosymmetric space group P2₁2₁2₁ [3,4]. The growth of large size single crystals of LAPCI and a few physical properties were studied and reported by Tapati Mallik and Tanusree Kar [5]. L-Arginine Phosphate (LAP) and its chemical analogues were firstly studied by Monaco et al. [6].

Physical properties of a solid material can be altered by irradiating it with electron beams of suitable energy [7]. Organic solids are sensitive to the energy deposited in their electronic system through irradiation. Electrons do not cause impurity production directly but they can cause impurity production indirectly through chemical bond breakage. These impurities in a crystal can alter its electrical and mechanical properties [8]. Previous studies show that electron beam with MeV range of energy can induce defects in crystals [9–11]. The shift of the optical absorption edge towards the longer wavelength region was observed in some semi organic crystals upon electron beam irradiation. The reduction in band gap and the changes in dielectric properties with graded dosages of electron beam were also observed in some semi organic single crystals [12,13].

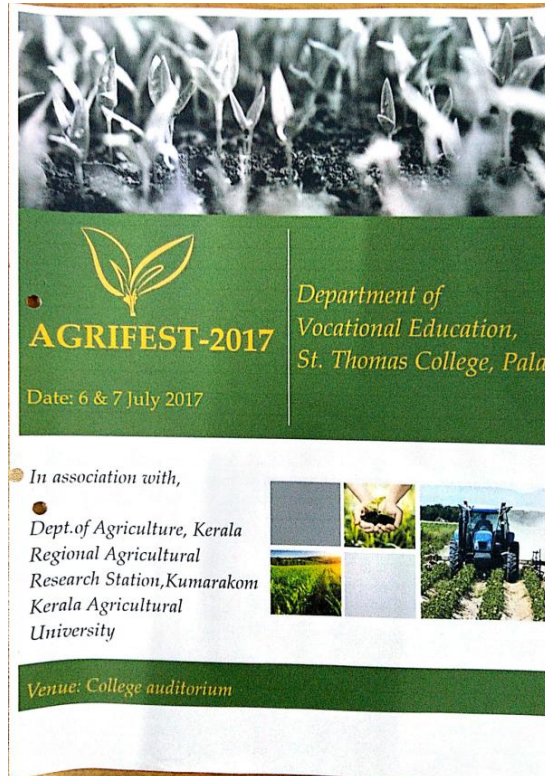
Abbreviations: LAPCI, L-Arginine Perchlorate; NLO, Nonlinear Optics; UV-Vis, Ultraviolet Visible; FT-IR, Fourier Transform Infrared; TGA, Thermogravimetric Analysis; DSC, Differential Scanning Calorimetry.

* Corresponding author.

E-mail addresses: ginsonpj@gmail.com, ginsonpjoseph@gmail.com (G.P. Joseph).

Agri fest- 2017-18

Agri fest was conducted in St. Thomas College, Palai on 5th and 6th of July 2017. The fest was conducted under the scheme “Kissan Goshti” of Agriculture Technology Management Agency (ATMA) along with Department of Agriculture Development & Farmer’s Welfare. Regional Agricultural Research Station (RARS) and Krishi Vigyan Kendra (KVK), Kumarakom under Kerala Agricultural University extended technical support to the fest.



Two hundred and fifty students participated in the fest. Resource persons were Dr. Vandana Venugopal, Scientist, R.A.R.S and Ms. Anitha, Asst. Director of Agriculture, District Soil Testing Laboratory, Kozha. Dr. Vandana Venugopal took class about Homestead vegetable cultivation and Ms. Anitha took class about soil sampling and testing.



Target group of the fest was farmers, students and teachers of the college and public. Sixty farmers and students of various vocational higher secondary schools were participated in the fest. The exhibition organised by B.Voc. (S.A.) students disseminated new agricultural methods and technologies to the farmers as well as to the public. The demonstration include integrated farming system model, terrariums, composting, integrated pest management methods etc. B.voc. (FPT) students sold cookies and cakes made by them to the public. The teachers participated in the fest were M.S.Jayaprasad, Dr. Lini L.Alappat, Renu Mathew, Roshan Joseph, Minu Abraham, Jinu T. Jose, Jovancy Mathew, Gisha T. Mathew, Arun P.M. and Jibin Joseph.



സെന്റ് തോമസ് കോളേജ്, പാലാ

കാർഷികമേള -2017

പാലാ സെന്റ് തോമസ് കോളേജിൽ ജൂലൈ 6,7 തീയതികളിൽ കൃഷി വകുപ്പിന്റെയും വൊക്കേഷണൽ ഡിപ്പാർട്ടുമെന്റിന്റെയും ആഭിമുഖ്യത്തിൽ ഒരു കാർഷികമേള സംഘടിപ്പിക്കുന്നു. മേളയിൽ ജൈവകൃഷിയുടെ അനന്തസാധ്യതകളെക്കുറിച്ചും, നൂതന ജൈവകൃഷിരീതികളെപ്പറ്റിയും സെമിനാറുകളും ക്ലാസുകളും ഉണ്ടായിരിക്കുന്നതാണ്. കൂടാതെ 3-ാം വർഷ അഗ്രികൾച്ചർ വിദ്യാർത്ഥികളുടെ നേതൃത്വത്തിൽ നൂതന കാർഷികവിദ്യകളുടെ ഒരു പ്രദർശനവും, വിവിധ കാർഷിക ഉപാധികളായ ജൈവവളം, വിത്തുകൾ, തൈകൾ എന്നിവയുടെ വിൽപനയും ഉണ്ടായിരിക്കുന്നതാണ്. കാർഷികമേളയിൽ പങ്കെടുക്കുന്നതിന് ഏവരെയും സാദരം ക്ഷണിച്ചുകൊള്ളുന്നു.

പ്രദർശനം സൗജന്യം

സ്ഥലം : കോളേജ് ഓഡിറ്റോറിയം

കാർഷിക മേള -2017

സ്ഥലം : സെന്റ് തോമസ് കോളേജ് പാലാ

തീയതി : 06-07-2017 (10:30 am)

കാര്യ പരിപാടികൾ

- ഇൗശ്വര പ്രാർത്ഥന
- സ്വാഗതം - ജി ബാബു രാജ്
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(വൈസ് പ്രിൻസിപ്പൽ സെന്റ് തോമസ് കോളേജ് പാലാ)
- സ്റ്റാൾ ഉദ്ഘാടനം - റെവ ഫാദർ മാത്യു കുര്യൻ കാവനടിമലയിൽ
(ബർസാർ സെന്റ് തോമസ് കോളേജ് പാലാ)
- ആശംസ - ഡോ കെ കെ ജോസ്,
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ഡോ സണ്ണി ജോസഫ്
(മുൻ പ്രിൻസിപ്പൽ സെന്റ് തോമസ് കോളേജ് പാലാ)
കെ ജെ ജോസ്, (അഗ്രി ഫീൽഡ് ഓഫീസർ, പാലാ)
- കൃതജ്ഞത - സ്റ്റേഫി മോനി മൈക്കിൾ , (BTM , atma)

2016-17

Microton irradiation induced tuning of dielectric properties of nano ZnO–natural rubber disks

Deepu Thomas¹ · K. A. Vijayalakshmi² ·
Jobin Job Mathen³ · Simon Augustine⁴ ·
Deepalekshmi Ponnamma⁵ · Kishor Kumar Sadasivuni⁶ ·
John-John Cabibihan⁶

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Abstract The effect of electron beam irradiation of dielectric and conductivity properties of nano ZnO–natural rubber (NR) disks was investigated here. It is revealed that electric properties such as AC conductivity, dielectric constant, and loss tangent of the irradiated samples were improved significantly as compared to the non-irradiated samples, which have been associated with defects in the composites. The total number of dipoles was generated inside the polymer matrix upon irradiation depends on the dislocations formed inside the matrix. From the experiments, we observe that in the amorphous region electron beam irradiation fetches crosslinking and breakdown at the same time. The enhancement of the dielectric and conductivity properties demonstrates that nano ZnO–NR disks will be a promising candidate for the optoelectronic industry. Finally, we also examined the influences of temperature on the electrical conductivity of irradiated samples.

Keywords Nanocomposites · Electronic materials · Dielectrics · ZnO–NR disks · Electron beam irradiation

✉ Deepu Thomas
deepuskariankal@gmail.com

¹ Research and Development Centre, Bharathiar University, Coimbatore 641046, India

² Department of Physics, Sri Vasavi College, Erode 638316, India

³ Department of Physics, Loyola College, Chennai 600034, India

⁴ Department of Physics, St. Thomas College, Kottayam, Pala 686574, India

⁵ Center for Advanced Materials, Qatar University, 2713 Doha, Qatar

⁶ Department of Mechanical and Industrial Engineering, Qatar University, 2713 Doha, Qatar

Microtron Irradiation Induced Tuning of Band Gap and Photoresponse of Al-ZnO Thin Films Synthesized by mSILAR

DEEPU THOMAS,^{1,6} SIMON AUGUSTINE,²
KISHOR KUMAR SADASIVUNI,³ DEEPALEKSHMI PONNAMMA,⁴
AHMAD YASER ALHADDAD,³ JOHN-JOHN CABIBIHAN,³
and K.A. VIJAYALAKSHMI⁵

1.—Research and Development Centre, Bharathiar University, Coimbatore 641046, India. 2.—Department of Physics, St. Thomas College, Pala, Kottayam 686574, India. 3.—Department of Mechanical and Industrial Engineering, Qatar University, P.O. Box 2713, Doha, Qatar. 4.—Center for Advanced Materials, Qatar University, P.O. Box 2713, Doha, Qatar. 5.—Department of Physics, Sri Vasavi College, Erode 638316, India. 6.—e-mail: deepuskariankal@gmail.com

Al-doped polycrystalline nano ZnO (Al-ZnO) thin films with different doping concentrations were successfully prepared by the microwave-assisted successive ionic layer adsorption and reaction (mSILAR) technique. The structural analysis along with the orientation of the prepared films was examined by powder x-ray diffraction (PXRD) patterns. The deposited film is polycrystalline and the (002) orientation enhanced upon doping. Additional investigations were carried out to study the effect of electron beam irradiation (e^- -irradiation) on the band gap and photoconductivity of both irradiated and unirradiated samples. Both the Al doping and e^- -irradiation led to the enhancement of the photoconductivity of prepared materials. This property enables us to tune the properties of materials for various applications by controlling dopant concentrations and e^- -irradiation. The dependence of photocurrent on e^- -irradiation of Al-ZnO thin films was not reported previously. Therefore, Al-doped polycrystalline nano-ZnO thin film is a promising material for band gap engineering and for the development of solar cells.

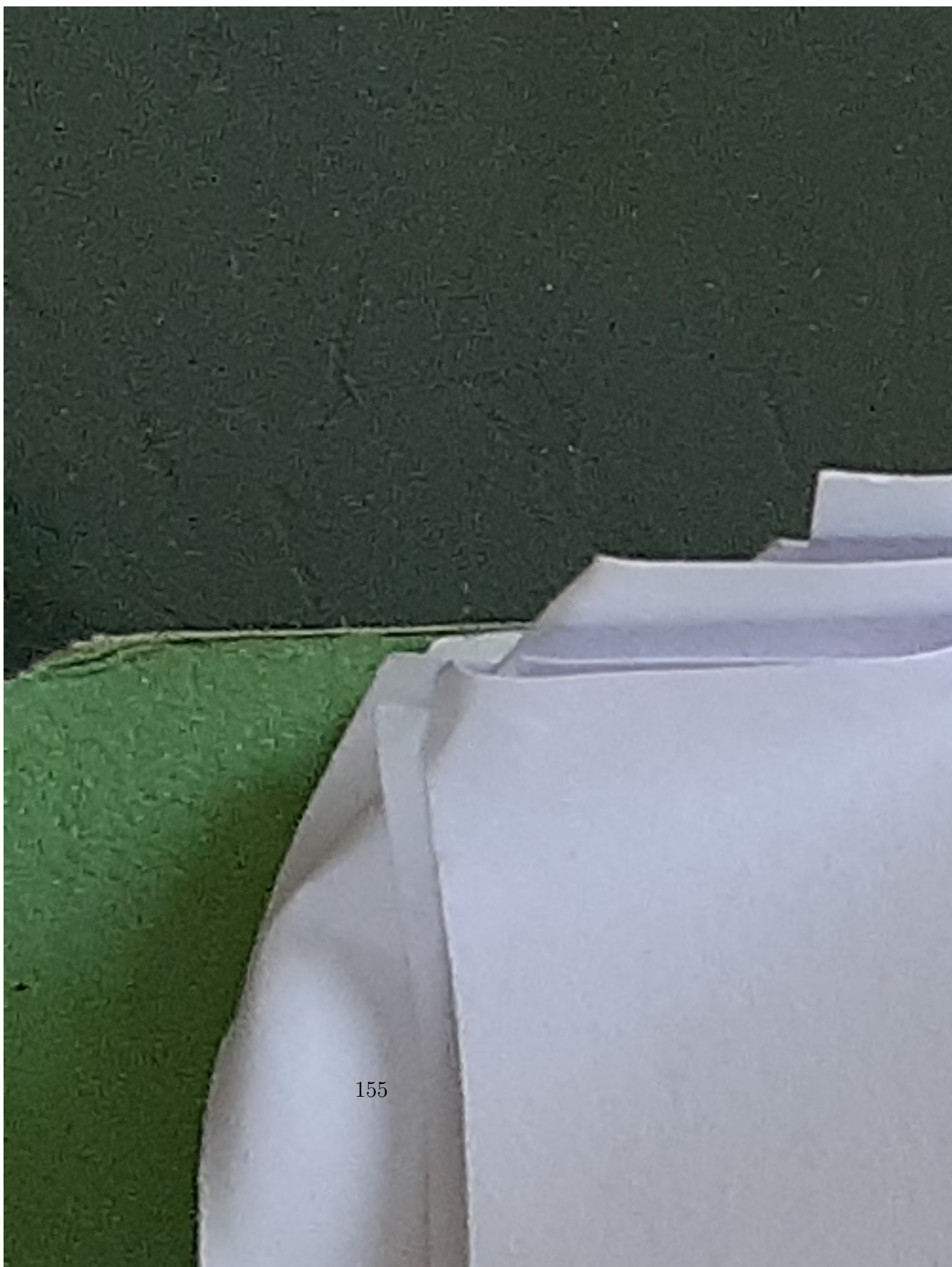
Key words: mSILAR, doping, photoconductivity, band gap, solar cell

INTRODUCTION

Zinc oxide (ZnO) is a technologically important material for photo-voltaic devices and an n -type buffer material in the solar cell because of its large band gap of 3.3 eV.¹ It has been investigated over the last four decades because of its interesting optical, piezoelectric, and electrical properties. However, ZnO stability at high temperature and in a high radiation environment still needs to be well explored.^{1,2} The e^- -irradiation on solid materials is known to produce changes in the microstructural properties of the material, which in turn affects the optical, electrical, and other physical properties of the same material.^{3,4} It is reported that

e^- -irradiation can also alter different surface properties of ZnO thin films such as variation in diameter of nanowires and formation of bigger grains.^{3,4} Numerous efforts have been made to investigate the influence of e^- -irradiation on various metal oxides and polymer thin film structures, in order to test their applicability as e^- -radiation dosimeters.⁵ Yun et al. suggested e^- -irradiation as a tool to produce different structures on the surface of thin films, and hence modulated different properties of thin films.⁶ Nevertheless, a detailed study of photocurrent produced upon the e^- -irradiation on metal oxide thin films needs to be more investigated.

The present investigation aims at synthesizing Al-doped polycrystalline nano-ZnO (Al-ZnO) thin films with different doping concentrations by microwave-assisted successive ionic layer adsorption reaction (mSILAR). The deposited metal oxide film



2015-16



ST. THOMAS COLLEGE, PALA

COLLEGE WITH POTENTIAL FOR EXCELLENCE - UGC (2010 and 2015)



NEWSLETTER 2015 - '16

VOL. XVIII NO.1 JUNE 2016

Principal's Message

Making Dreams Come True



My best wishes to all the colleagues, students, parents, friends, benefactors and well wishers of the college. As we all know, the academic year 2015-16 has been a highly productive one – academically and in the field of co-curricular activities and infrastructure development. Indeed, we are one of the best colleges in the state, nay in the country, and I think we should contemplate the factors that have contributed to this pride of place we enjoy. For a track record marked with successes I thank all the members of our community who have upheld the lofty principles of our Founding Fathers. For the coming years I call on everyone in the St. Thomas community to work together to sustain an environment in which all of us are academically committed, intellectually free and politically wise so that the stakeholders as well as the community at large can speak glowingly of St. Thomas' importance in the academic scenario of the state.

We have a dream sports infrastructure project completed and inaugurated this year. On February 28, 2016 the Integrated Sports Complex, which houses a spacious and state-of-the-art indoor stadium and Olympic-standard swimming pool, was inaugurated. You can read details on the following pages.

Our ability to deliver excellence in higher education, post-graduate and research studies, has been borne out by the distinctions, ranks and top positions won by our students, in some cases the honour in a row for several years for our college – hat trick and more. This year 10 research scholars who pursued their academic expedition at St. Thomas were awarded Ph.D. by the University. It is a truly remarkable achievement. This gives an opportunity for me to congratulate the Ph.D. awardees and their guides. Hearty Congratulations! Research remains one of the pillars that make St. Thomas a university- leading college. External factors like the increasing competition from autonomous colleges in the state are posing a challenge to our competitiveness. In future we will have to strive to maintain academic excellence which is the defining feature of our institutional landscape integral to establishing our university and national level reputation. The recent developmental work enables our college to offer an infrastructure that is commensurate with its standing as a leading college.

Apart from providing facilities for the holistic development of the young generation, we are succeeding in our endeavour to serve the local community in new and creative ways. We have to further enhance our regional engagement to strengthen alumni network, parent interaction, political and administrative goodwill etc. By sharing our intellectual assets, infrastructure facilities such as the sports complex and swimming pool, experimental knowledge and hands-on experience with the community we can further invest in fruitful interactive relationships which the future of the college is intimately bound with.

Let us together enable our students to experience a life-transforming education process at St. Thomas. Let each graduand be a St. Thomas graduate. Assuredly our distinguished institution has great DNA to spur us to soar higher in the academic empyrean and to serve as a trailblazer and a beacon on an eminence for the modern knowledge-based social system.

Thank you all.

Dr. Sunny Joseph Panjikunnel

Integrated Sports Complex Inaugurated

St. Thomas College on the Fast Track

The legacy of sports achievement of our institution is underlined by the completion of the mega project of sports infrastructure - the Integrated Sports Complex - with the partial financial assistance of Rupees one crore seventy lakhs from the University Grants Commission. The project was completed at a total cost of Rupees eleven crores. The Management, teachers and private individuals contributed substantially for the successful completion of the project. The Sports Complex consists of a Multipurpose Indoor Sports Training Facility with maple wood flooring which can accommodate six badminton courts at a time. An Olympic-standard Swimming Pool with latest water purification system, a kid's pool and a walkers' lane are the other facilities developed as part of the Integrated Sports Complex. The entire project was completed during this academic year.



Sri. Oommen Chandy, Hon'ble Chief Minister of Kerala, inaugurates the Integrated Sports Complex

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Prof. K. Philip John Endowment Lecture and Business Plan Presentation Contest



Very Rev. Msgr. Abraham Kollithanathumalayil inaugurates the Endowment Lecture and Business Plan Presentation Contest

The Department of Commerce in association with Prof. K. Philip John Memorial Academic Foundation and Vegetable and Fruit Promotion Council Keralam (VFPC), hosted a prestigious event viz. Prof. K. Philip John Endowment Lecture and Business Plan Presentation Contest on 'Value Addition in Agro and Dairy Products' on 29 January 2015. The programme consisted of endowment lecture, seminar and exhibition of value added products. The programme was inaugurated by Very Rev. Msgr. Abraham Kollithanathumalayil, Vicar General, Diocese of Palai. In his keynote address, he shared his views on value addition in agro-dairy products and pointed out the initiatives taken by Palai Diocese for farmers' empowerment and assistance. Dr. Sunny Joseph, Principal of the College, presided over the function and said that value addition is essential in every field in order to survive in the long run. Ms. Resmi I., Manager VFPC, Kottayam delivered the keynote address and presented a brief report on the topic 'Recent changes in the field of value addition in agricultural and dairy products'. Rev. Dr. James John Mangalathu, Vice-Principal of the College and Prof. K. V. John, Head of the Department of Commerce, offered felicitations. Prof. Bobby Simon, Director of the Commerce Forum, welcomed the gathering and Prof. Binoy Chacko, Convener of the programme, proposed the vote of thanks. Around 100 value added products were exhibited in this session.

Ms. Remya R. and Ms. Shijini V. M., Assistant Managers of VFPC, Kottayam delivered lectures on the topics 'Agro processing', 'Benefits of value added agricultural products with case studies' and 'Threats of hazardous chemicals in food processing'. There



Exhibition of value added agricultural products



Adv. George C. Kappen, President, KISCO Bank, launches the blog named 'Taste of Kalavara'

were separate 'business plan presentation' contests for public and students. In the public category, there were nine teams who qualified the preliminary round and among them, Mrs. Ancy Mathew (Mangalathil, Pala) secured the first prize. The team of Mr. Mathew Joseph and Mr. Reji Joseph (VFPCCK, Parathodu)

and Ms. Ruby Thomas (Thengumthottathil, Puliyanloor) secured the second and third prizes respectively.

From the students' category, Mr. Nithin Varghese (S.B. College, Changanassery), Mr. Arun Mohanan and Mr. Jinesh George (Presentation College, Puthenvayalil) and Mr. Amal C. Shaji and Mr. Ajith Aji (Mate Foundation) secured the first, second and third prizes respectively. Around 100 value added products were exhibited in this session.

As part of the programme, a blog named "Taste of Kalavara" was also launched. Adv. George C. Kappen, President, KISCO Bank, officially launched the blog. The seminar concluded with a valedictory session chaired by Adv. George C. Kappen. Dr. Lini L. Alappattu, Assistant Professor, Vocational Education Department, gave the valedictory message. The delegates expressed their high appreciation for the meticulous organization and conduct of the programme and for the choice of competent speakers on the topics. Trophies and certificates were distributed to the winners by Dr. Sunny Joseph, Principal.

Internal Quality Assurance Cell (IQAC) Reconstituted

The IQAC of the College was reconstituted on 23 July 2015 keeping in view the quality assurance needs of the College for the next five years and re-accreditation falling due in 2020. The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the performance of the institution. The IQAC will channel the efforts and measures towards academic excellence in all the operations of the institution to assure the stakeholders the accountability of the institution for its own quality and probity.



Dr. Sunil C. Mathew
IQAC Co-ordinator

- Chairman : Dr. Sunny Joseph (Principal)
 Vice Chairman : Rev. Dr. James John Mangalathu (Vice Principal)
 Co-ordinator : Dr. Sunil C. Mathew (Dept. of Mathematics)
 Members : Rev. Fr. Mathew Kurian Kavanadimalayil (Bursar)
 Dr. Sunny Kuriakose (Dept. of Chemistry)
 Dr. T.J. Abraham (Dept. of English)
 Dr. Siby James (Dept. of English)
 Dr. Ison V. Vanchipurackal (Dept. of Physics)
 Prof. Mathew Thomas (Dept. of Zoology)
 Dr. Babu Jose (Dept. of Commerce)
 Sri. Jose Joseph (Administrative Assistant)
 Dr. K. K. Jose (Distinguished Educationalist & Local Representative)
 Sri. Joby George (Sub Div. Engineer, BSNL and Alumni Representative)
 Sri. Jose Mampampil (Industrialist)

The College Accorded CPE Status (Phase II)

The University Grants Commission (UGC) has selected St. Thomas College, Pala for the College with Potential for Excellence (CPE) status (Phase II) for the period 2016-2021. The College is expected to receive a special grant of Rs. Two crore as part of this program. Rev. Dr. James John Mangalathu, Vice Principal and Dr. Sunny Kuriakose, Head, Dept of Chemistry, represented the College in the interface with the expert committee of the UGC held at the UGC headquarters in New Delhi on 16 May 2016.



Rev. Dr. James John
Mangalathu



Dr. Sunny Kuriakose

Know Your Campus (KYC 2015) Programme

An innovative campus tour titled 'Know Your Campus (KYC 2015)' was organized as part of the induction program for the freshers to the College on 16 July 2015. The first year students were taken to all the Departments and facilitation centres of the College by student co-ordinators for acquainting them with the College. A documentary film on the College was also exhibited for them.

SEMINARS, CONFERENCES, WORKSHOPS AND LECTURES

International Symposium on Concurrent Methodologies in Organic Synthesis and Erudite Lecture



Dr. Babu Sebastian, Hon'ble Vice Chancellor, M. G. University, inaugurates the International Symposium

A one-day international symposium on Concurrent Methodologies in Organic Synthesis was organised by the Department of Chemistry of the College in association with the Institute for Intensive Research in Basic Sciences (IIRBS), Mahatma Gandhi University, Kottayam on 13 February 2016, in honour Prof. Ei-ichi Negishi (2010 Chemistry Nobel Laureate), Purdue University, USA, who visited Kerala as a

State Guest. The programme was sponsored by the Department of Science of Technology (DST), Government of India; Kerala State Council for Science, Technology and Environment (KSCSTE), and Kerala State Higher Education Council (KSHEC), Government of Kerala. It was intended to be part of enriching basic science education in the State of Kerala. Prof. Negishi was the Chief Guest of Honour at the symposium where



Dr. Sunny Joseph, Principal, presents a memento to Nobel Laureate Prof. Ei-ichi Negishi on behalf of the College

ST. THOMAS COLLEGE, PALA

COLLEGE WITH POTENTIAL FOR EXCELLENCE - UGC (2010 and 2015)

Speakers at the International Symposium



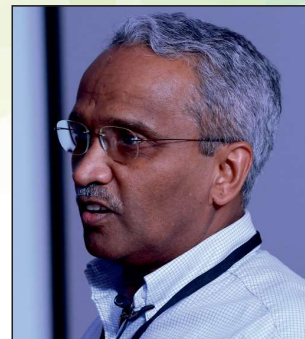
Dr. H. Junjappa,
INSA Senior Scientist



Dr. S. Chandrasekaran,
IISc, Bangalore



Dr. Ganesh Pandey,
Director, CBMR (CSIR), Lucknow



Dr. T.V. RajanBabu,
Ohio State Uty, USA



Dr. A. Ajayghosh, Director,
NIIST (CSIR), Thiruvananthapuram



Dr. Thomas J. Colacot,
Johnson Matthey Inc., USA



Dr. H. Ila,
JNCASR, Bangalore



Dr. Srivari Chandrashekar,
Director, IICT (CSIR), Hyderabad



Dr. M. Periasamy,
Vice Chancellor, Hyderabad Central Uty.



Dr. I.N.N. Namboothiri,
IIT Bombay



Dr. Suresh Das,
Executive Vice President, KSCSTE



Dr. V.N. Rajasekharan Pillai,
former Vice Chairman, UGC



Views of the distinguished delegates who attended the international symposium



Nobel Laureate Prof. Ei-ichi Negishi delivers the Erudite Lecture of the KSHEC

several eminent scientists in diverse areas of organic synthesis delivered plenary lectures.

The symposium was inaugurated by Dr. Babu Sebastian, Vice Chancellor, Mahatma Gandhi University at a meeting presided over by Dr. Suresh Das, Executive Vice President of KSCSTE, Government of Kerala. The Vice Chancellor draped Prof. Ei-ichi Negishi with a *ponnada*. Dr. Sunny Joseph, Principal, offered felicitations. He also presented a memento to Prof. Ei-ichi Negishi on behalf of the College. Dr. I. Ibnusaud, Convener, welcomed the gathering and Dr. G.D. Gem Mathew, Local Co-ordinator, proposed the vote of thanks.

In the Scientific Session 1 that followed, Prof. H. Junjappa, INSA-Senior Scientist was the chairman. Plenary lectures were delivered by Dr. S. Chandrasekaran, Indian Institute of Science, Bangalore; Dr. Ganesh Pandey, Director, Centre for Bio-medical Research (CSIR), Lucknow; Dr. T.V. RajanBabu, Professor, Ohio State University, USA; Dr. A Ajayaghosh, Director, National Institute for Interdisciplinary Science and Technology (CSIR), Thiruvananthapuram and Dr. Thomas J. Colacot, Global R & D Manager, Johnson Matthey Inc., USA.

In the Scientific Session 2, Dr. Ganesh Pandey, Director, CBMR, Lucknow was the chairman. Plenary lectures were delivered by Dr. H. Ila, Jawaharlal Nehru Centre for Advanced



Prof. Ei-ichi Negishi presents a memento to Ms. Isna Susan Abraham

Scientific Research, Bangalore; Dr. Srivari Chandrashekar, Director, Indian Institute of Chemical Technology (CSIR), Hyderabad; Dr. M. Periasamy, Vice Chancellor, Hyderabad Central University and Dr. I.N.N. Namboothiri, Professor, IIT Bombay.

In the Scientific Session 3, Dr. Thomas J. Colacot introduced Nobel Laureate Prof. Ei-ichi Negishi to the audience. Prof. Ei-ichi Negishi then delivered the Erudite Lecture of the Kerala State Higher Education Council on the topic "Magical Power of Transition Metal Catalysis: Past, Present and Future". This was followed by the Valedictory Session which was chaired by Dr. V.N. Rajasekharan Pillai, former Vice Chairman of University Grants Commission. Dr. Suresh Das, Executive Vice President of Kerala State Council for Science Technology and Environment (KSCSTE), Government of Kerala, delivered the valedictory address. Prof. Ei-ichi Negishi presented merit certificates and mementos to meritorious students including the following students of the college: Ms. Isna Susan Abraham (M.Sc. Chemistry 2013-15 batch topper and winner of 'A' grade), Mr. Anish Babu (II M.Sc. Chemistry 2015-16 class topper) and Ms. Amala Shaliya Joseph (I M.Sc. Chemistry 2015-16 class topper). The symposium came to an end with concluding remarks by Dr. I. Ibnusaud, Convener.



Prof. Ei-ichi Negishi presents a certificate of merit to Mr. Anish Babu



Prof. Ei-ichi Negishi presents a certificate of merit to Ms. Amala Shaliya Joseph



The faculty of the Department of Chemistry with Nobel Laureate Prof. Ei-ichi Negishi

Prof. Ei-ichi Negishi - 2010 Chemistry Nobel Laureate

Professor Ei-ichi Negishi is a world renowned Japanese chemist who has spent most of his career at Purdue University in the United States. He is best known for his discovery of the 'Negishi coupling reaction'. In December 2010, he was awarded the Nobel Prize in Chemistry jointly with Richard F. Heck and Akira Suzuki, for developing metal-based reactions called palladium-catalyzed cross-coupling, that allow for easy and efficient synthesis of complex organic compounds.

Born in 1935, Negishi came to the United States in 1960 after graduating from the University of Tokyo. In 1962, while studying for his doctorate at the University of Pennsylvania, he met Purdue chemistry professor Herbert C. Brown — a pioneer in synthetic organic chemistry. Negishi admired Brown's research and predicted, "Brown will change the whole world of organic chemistry and that is why I came to Purdue." With Brown as a mentor, Negishi arrived at Purdue University in West Lafayette as a postdoctoral researcher in 1966.

He then moved to Syracuse University where he served as an assistant professor (1972-76) and associate professor (1976-79). Dr. Negishi joined the faculty at Purdue in 1979 — the same year Brown was awarded the Nobel Prize in Chemistry — and has been a researcher in Purdue University for more than thirty years. In 1999, he was named the Inaugural Herbert C. Brown Distinguished Professor of Chemistry.

Dr. Negishi has authored several books, and published more than 400 research papers. He has received various awards, with the most representative being 1987 J.S. Guggenheim Fellowship, 1996 Chemical Society of Japan Award, 1998 ACS Award in Organometallic Chemistry, 1998–2001 Alexander von Humboldt Senior Researcher Award, Germany, 2000 Sir Edward Frankland Prize, Royal Society of Chemistry, UK, 2007 Yamada Koga Prize, Japan, 2010 ACS Award for Creative Work in Synthetic Organic Chemistry, 2010 Japanese Order of Culture, 2010 Nobel Prize in Chemistry, 2010 UK Royal Society of Chemistry Honorary Fellowship Award, 2011 Fellow of the American Academy of Arts and Sciences, and 2014 elected into the National Academy of Sciences as a Foreign Associate.

Dr. Negishi's name is pronounced: Ei-ichi (Ā-E-chE) Negishi (Na-gE-shE).



Prof. Ei-ichi Negishi

*International and Inter University Centre for Nanoscience
and Nanotechnology*
MahatmaGandhiUniversity
Priyadarsini Hills
Kottayam-686 560, Kerala, India

Telephone: 91-9447223452 (Mobile), 91-481-2730003 (Office)


E-mail: sabuchaitlukalan@yahoo.co.uk, Sabupolymer@yahoo.com, sabat@sanchernet.in,

Prof. Sabu Thomas
Hon. Director

30.08.2016

CERTIFICATE

This is to certify that the project report entitled "PREPARATION AND CHARACTERIZATION OF BARIUM TITANATE-GRAPHENE COMPOSITE" is an authentic record of the project work carried out by MISS ANJANA BABU under the guidance of Prof. SABU THOMAS at INTERNATIONAL AND INTER UNIVERSITY CENTRE FOR NANO SCIENCE AND NANOTECHNOLGY, MAHATMA GANDHI UNIVERSITY, KOTTAYAM in partial fulfillment of the requirements for the award of the degree of master of science in chemistry.



Prof. (Dr.) Sabu Thomas

DIRECTOR

KOTTAYAM

30-08-2016

*International and Inter University Centre for Nanoscience
and Nanotechnology*
Mahatma Gandhi University
Priyadarsini Hills
Kottayam-686 560, Kerala, India

Telephone: 91-9447223452 (Mobile), 91-481-2730003 (Office)

E-mail: sabuchathakulam@yahoo.co.uk, Sabupolymer@yahoo.com, sabul@senchernet.in,

Prof. Sabu Thomas
Hon. Director

30.08.2016

CERTIFICATE

This is to certify that the project report entitled “**PREPARATION OF CELLULOSE-POLYANILINE NATURAL RUBBER COMPOSITE**” is an authentic record of the project work carried out by **MISS ARSHITHA SAJU** under the guidance of **Prof. SABU THOMAS** at **INTERNATIONAL AND INTER UNIVERSITY CENTRE FOR NANO SCIENCE AND NANOTECHNOLGY, MAHATMA GANDHI UNIVERSITY, KOTTAYAM** in partial fulfillment of the requirements for the award of the degree of master of science in chemistry.



Prof. (Dr.) Sabu Thomas
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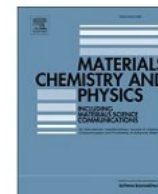
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30-08-2016



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Influence of Sb incorporation on optical, electrical and gas sensing properties of transparent ZnO thin films

N.H. Sheeba^a, Sunil C. Vattappalam^b, P.V. Sreenivasan^c, Sunny Mathew^b, Rachel Reena Philip^{a,*}

^a Thin Film Research Lab, U.C. College, Aluva, Kerala, India

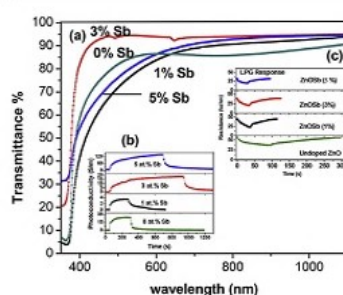
^b Material Science Research Lab-1, St. Thomas College, Pala, Kerala, India

^c Department of Chemistry, U.C. College, Aluva, Kerala, India

HIGHLIGHTS

- Transparent ZnO and ZnO:Sb thin films are deposited by vacuum evaporation followed by air annealing.
- Enhanced photoconductivity and transmittance are achieved on doping with Sb.
- Improved sensitivity and response time to Liquid Petroleum Gas on Sb doping of ZnO shows applicability in gas sensors.

GRAPHICAL ABSTRACT



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ABSTRACT

Polycrystalline nanostructured thin films of n-type ZnO and Sb doped ZnO with doping at 1%, 3% & 5% possessing tailored electrical and optical properties are prepared by vacuum evaporation followed by air annealing and their application as gas sensor is evaluated. Doped films show substantial improvement in response time and sensitivity to Liquid Petroleum Gas, with fastest response ~20 s for 5% Sb doped samples. Doping enhances optical bandgap, transmittance, photoresponse and electrical conductivity. Carrier concentration and mobility are maximum for 5% doped, which corroborates the electrical conductivity variations for the doped samples which is also maximum for 5% doped.

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1. Introduction

ZnO is a II-VI transparent conducting oxide (TCO) of wide research interest due to their desirable features like high transmittance in visible region, wide band gap (3.37 eV), n-type

conductivity and ease to grow with diverse morphologies as nanotubes, nanorods, nanosheets etc., that renders them useful for various electronics, optical, optoelectronics, photocatalysis and sensing devices [1,2]. ZnO finds applications in ultraviolet Light Emitting Diodes, laser diodes, photodetectors, gas sensors, dye sensitized solar cells etc. [3,4]. Though its high resistivity and difficulty to dope as p-type semiconductor are two factors that limit them to be employed extensively in transparent electronics, ZnO nanostructures are recently attracting great interest due to their

* Corresponding author.

E-mail address: reematara@rediffmail.com (R.R. Philip).



**International and Inter University Centre for Nanoscience
and Nanotechnology**

**Mahatma Gandhi University
Priyadarsini Hills
Kottayam-686 560, Kerala, India**

Telephone: 91-9447223452 (Mobile), 91-481-2730003 (Office)

E-mail: sabunathukalam@yahoo.co.in, Sabupolymers@yahoo.com, sabutoesunjournal.in

Prof. Sabu Thomas
Director

30.08.2016

CERTIFICATE

I hereby certify that the project report entitled "**PREPARATION AND CHARACTERISATION OF ACTIVATED CARBON FROM GREEN COCONUT SHELL**" is an authentic record of the project work carried out by **MISS NEETHU K JOSEPH** under the guidance of **Prof. SABU THOMAS** at **INTERNATIONAL AND INTER UNIVERSITY CENTRE FOR NANO SCIENCE AND NANOTECHNOLGY, MAHATMA GANDHI UNIVERSITY, KOTTAYAM** in fulfillment of the requirements for the award of the degree of master of science in Chemistry.

Prof. (Dr.) Sabu Thomas
DIRECTOR

KOTTAYAM

30-08-2016

Enhancement in the Electrical and Thermal Properties of Ethylene Vinyl Acetate (EVA) Co-Polymer by Zinc Oxide Nanoparticles

Jose Sebastian¹, Eby T. Thachil¹, Jobin Job Mathen², Joseph Madhavan², Prince Thomas³, Jacob Philip⁴, M. S. Jayalakshmy⁴, Shahrom Mahmud⁵, Ginson P. Joseph^{3*}

¹Department of Polymer Science and Rubber Technology, Cochin University of Science and Technology, Kerala, India

²Department of Physics, Loyola College, Chennai, India

³Department of Physics, St. Thomas College, Palai, India

⁴Department of Instrumentation, Cochin University of Science and Technology, Kerala, India

⁵School of Physics, Universiti Sains Malaysia, Minden, Malaysia

Email: joseuce@gmail.com, etthachil@gmail.com, jobinjobuv@gmail.com, jmadhavan@yahoo.com, princealani@gmail.com, jphilip6012@gmail.com, jayalakshmy.ms@gmail.com, ginsonpj@gmail.com, ginsonpjoseph@gmail.com

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Abstract

EVA/ZnO nanocomposites of 1%, 2% and 4% ZnO were fabricated by direct probe sonicator method. The ZnO nanopowders were prepared by solvothermal method. As the particle size of the filler incorporated to the polymer matrix decreases, the properties of the polymer-filler interface show dominance over its bulk properties. The dielectric constant and dielectric loss of the composites at ambient temperatures are found to decrease with increasing frequency. The thermal analysis using TGA-DTA is also performed and it is found that the thermal stability of the nanocomposites increases with increasing the filler concentrations. The thermal parameters such as thermal diffusivity (α) and thermal effusivity (e), the thermal conductivity (k) and heat capacity (C_p) were studied using photopyroelectric technique. The band gap of the samples was also determined and found to decrease with increasing filler concentrations. The tensile strength and peel strength of the samples were also investigated and it is found to increase with small inclusion of filler material.

Keywords

Composite Materials, Polymers, Differential Thermal Analysis (DTA), Dielectric Properties

*Corresponding author.

2014-15

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FOR CORRESPONDENCE

Dr. Ratheesh. M
Email: biochemistrystcp@gmail.com
Ph: 9995012581,9497358718



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INVITATION

The time for grasping knowledge has become an important parameter for determining the success of an institution, enterprise, government and industry. Intellectual property rights (IPR) have become important in the face of changing trade environment which is characterized by the following features namely global competition, high innovation risks, short product cycle, need for rapid changes in technology, high investments in research and development (R&D), production, marketing and need for highly skilled human resources. An efficient and equitable intellectual property system can help all countries realize intellectual property's potential as a powerful tool for economic development and social and cultural well-being. The main objective of the seminar is to create awareness among the public about the intellectual property rights and also aimed to exchange recent development on international protection acts.

BIOCHEMIE CORDIALLY INVITES YOU...

St. Thomas College, Pala, founded in 1950 has to its credit more than 60 years of distinguished, service in the field of higher education in the state of Kerala sending out many graduate maxima cum laude to carve out their destinies in diverse spheres. The college has been recognized by the UGC as a *college with potential for excellence*.

Department of Biochemistry, founded in 1976 has grown strength to strength over the years. The relatively small size of our department provides an atmosphere of collegiality and accessibility. At the same time, close contacts and collaborations with other strong institutions in India and abroad, provide a breadth of expertise and experience of which we take full advantage. Research group in the department addresses structure of biological macromolecules, the mechanisms by which they function and the possible applications to research technology and medicine.



PROGRAMME SCHEDULE

09.00 AM – 10.00 AM	REGISTRATION
10.00 AM – 10.45 AM	INAUGURAL SESSION
10.45 AM – 11.00 AM	TEA BREAK
11.00 AM – 12.15 PM	TECHNICAL SESSION – I

'AN OVERVIEW OF INTELLECTUAL PROPERTY RIGHTS'

SHRI. H.L. NARENDRA BHATTA
(PATENT ATTORNEY & FOUNDER,
INTELLOCOPIA IP SERVICES, BANGALORE)

12.15 PM – 01.00 PM	TECHNICAL SESSION – II
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'HOW TO DO PATENT SEARCHING: TOOLS AND PROCEDURES?'

SHRI. SAFIKH S
(TECHNICAL OFFICER (IPR),
KSCSTE, TRIVANDRUM)

01.00 PM – 02.00 PM	LUNCH BREAK
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02.00 PM – 03.30 PM	TECHNICAL SESSION - III
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'PATENTING SYSTEM IN INDIA & PATENT FILING PROCEDURES'

SHRI. H.L. NARENDRA BHATTA
(PATENT ATTORNEY & FOUNDER,
INTELLOCOPIA IP SERVICES, BANGALORE)

03.30 PM – 04.00 PM	PANEL DISCUSSION & CONCLUDING SESSION
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04.00 PM	TEA
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SELECTION

The number of maximum participants is limited to 100.
Selection will be on first-come-first-served basis.
NO REGISTRATION FEE

IMPORTANT DATES

Last date for receipt of application
5-08-2014, Tuesday
Intimation of selection by e-mail
08-08-2014, Friday
Email: biochemistrystcp@gmail.com

Photographs



INAUGURATION FUNCTION: H.L .Narendra Bhatta (Attorney & Founder, Intellocopia IP Rights, Karnataka) inaugurated the seminar.



WELCOME SPEECH: DR. Ratheesh M, co-ordinator of IPR-2014 and assistant professor in Department of Biochemistry welcomed all dignitaries, delegates and students.



H.L. Narendra Bhatta delivered the inaugural speech.



Delegates from various parts of Kerala

Seminar on 'The Fiscal Dynamics and Growth Prospects of the Economy of Kerala'



Hon'ble Minister Sri. K.M. Mani inaugurates the seminar

The Department of Economics in association with the Dr. P.J. Thomas Centre for Social Sciences Research, organized a one-day State-level Seminar on 'The Fiscal Dynamics and Growth Prospects of the Economy of Kerala' on 5 January 2015. The postgraduate students belonging to Economics, Politics and Commerce Departments of the College and student delegates from nearby institutions attended the programme. Sri. K.M. Mani, Hon'ble Minister for Finance and Law,

Government of Kerala, inaugurated the Seminar at a meeting presided over by Rev. Fr. N.V. Joseph Njarakkattil, Principal. Dr. Joy George, HoD of Economics, delivered a retrospective on Dr. P.J. Thomas. Dr. Rajan Varughese, former Pro-Vice Chancellor, M G University, Kottayam and Dr. E.M. Thomas, Associate Professor, Christ College, Irinjalakuda were the chief resource persons. Prof. Tommy Cherian, Vice Principal, welcomed the gathering and Dr. Biju K.C. proposed the vote of thanks.

National Workshop on Intellectual Property Rights, IPR-2014

A National Workshop on Intellectual Property Rights (IPR-2014) was organised by the Department of Biochemistry of the College in collaboration with Patent Information Centre-Kerala of the Kerala State Council for Science, Technology and Environment (KCSTE). Govt. of Kerala on 12 August 2014. The objective of the Workshop was to create awareness on the basics of IPR including Patents, Copyrights, Trademarks, Industrial Designs, Patentability Criteria, Patent Searching, Patent Filing Procedures etc. among the participants. The workshop was inaugurated by Mr. H.L. Narendra Bhatta, Patent Attorney & Founder, Intellocopia IP Services, Bangalore, at a meeting presided over by Rev. Fr. N.V. Joseph Njarakkattil, Principal. Mr. Safikh S., Technical Officer (IPR), KSCSTE, Govt. of Kerala offered felicitations. Dr. Ratheesh M., Co-ordinator, IPR-2014, welcomed the gathering and Mr. Jobin Joseph, Secretary, *Biochemie* proposed the vote of thanks. In the technical sessions that followed, Mr. Safikh S. spoke on the

topic 'How to do Patent Searching: Tools and Procedures' and Mr. H.L. Narendra Bhatta spoke on the topics 'An Overview of Intellectual Property Rights' and 'Patent System in India and Patent Filing Procedures'. The programme came to an end with a panel discussion followed by the concluding session.



Mr. H.L. Narendra Bhatta inaugurates the workshop

Workshop on Mathematical Physics



Hon'ble Vice Chancellor Dr. Babu Sebastian inaugurates the workshop

The Academy of Physics Teachers (APT) and the Centre for Nano-Biopolymer Science and Technology, Dept. of Physics jointly organized a three-day Workshop on Mathematical Physics during 26-28 December 2014. The workshop was inaugurated by Dr. Babu Sebastian, Hon. Vice Chancellor, Mahatma Gandhi University, Kottayam. Dr. S.V.M. Satyanarayana, Pondicherry Central University was the resource person. Rev. Fr. N.V. Joseph Njarakkattil, Principal,

presided over the inaugural function. The welcome address was delivered by Dr. Ison V. Vanchipurackal, local organizing secretary. Dr. Shaju K.Y., Secretary of APT, felicitated and Prof. G. Harikrishnan, State Organizer of the Workshop proposed the vote of thanks. The workshop was focused on the topic "Linear Algebra" and 25 teachers from all over Kerala participated in it. Dr. Ison V. Vanchipurackal was the organizer of the Workshop.

Seminar on Current Trends in Physics

In connection with the Centenary of the Bohr Atom Model, the Centre for Nano-Biopolymer Science and Technology, Dept. of Physics organized a one day seminar on 'Current Trends in Physics' on 15 December 2014. The programme was organized in association with the Academy of Physics Teachers (APT). The seminar was inaugurated by Dr. K.B. Jinesh, IIST, Trivandrum. Rev. Fr. N.V. Joseph Njarakkattil, Principal, presided over the inaugural function. The welcome address was given by Dr. Michael Augustine, Head, Dept. of Physics. Dr. Isaac Paul, Regional Co-ordinator, APT (Dept. of Physics, S.B. College, Changanassery) felicitated. Talks were delivered by Dr. K.B. Jinesh on "Evolutions in nanotechnology: Enough room at the bottom", by Dr. K. Indulekha, M.G. University, Kottayam on "Atoms" and by Dr. Ison V. Vanchipurackal, Dept. of Physics, St. Thomas College, Pala on "Nobel-winning blue LED". The seminar was attended by 98 participants including teachers and students. There was also a lab visit at the end of the seminar. Dr. Ison V. Vanchipurackal, was the co-ordinator of the programme.

The programme was sponsored by the Kerala State Council for Science Technology and Environment, Govt. of Kerala, Trivandrum.



Dr. K.B. Jinesh inaugurates the seminar

National Seminar on Hindi Literature

A two-day national seminar on Hindi Literature was organised by the Department of Hindi on 28 and 29 January 2015. It was inaugurated by Dr. Kumud Sharma from the University of Delhi. The seminar was sponsored by the University Grants Commission.



Dr. Kumud Sharma inaugurates the seminar

Workshop on Biodiversity of Kerala

A Workshop on the Biodiversity of Kerala was organised jointly by the Departments of Zoology and Botany in collaboration with Pala Municipality on 6 February 2015. It was inaugurated by Shri. Kuriakose Padavan, Chairman of Pala Municipal Council. Shri. Toby Thomas, Municipal Secretary, delivered the key-note address

Invited Talk on the Local Heritage of Meenachil

The Department of History in collaboration with the Heritage Forum, Pala, organized an invited talk on the 'Local Heritage of Meenachil' on 25 June 2014. Dr. Cyriac Thomas, Member of National Minority Education Commission, Govt. of India, and Former Vice Chancellor of M.G. University, was the chief speaker. The programme was presided over by the Principal Rev Fr. N.V. Joseph Njarakkattil. Social activist Mr. V.I. Purushoththaman Poonjar also spoke on the occasion. 40 students and 30 members of the public attended the function. The programme was jointly co-ordinated by Rev. Dr. James John Mangalathu and Prof. Cyriac Jose.



Dr. Cyriac Thomas delivers the invited lecture

Jawaharlal Nehru Memorial Lecture Series-1

Jawaharlal Nehru Memorial Lecture Series-1 organised by the Department of Politics was inaugurated by Sri. P.C. George M.L.A. (Hon. Govt. Chief Whip) on 11 August 2014. The meeting was presided over by Rev. Fr. N.V. Joseph Njarakkattil, Principal. Rev. Fr. Mathew Kavanadimalayil, Bursar and Dr. Shajimon K. Mathews, HoD, Dept of Politics, offered felicitations. Mr. Nidhin Jose, President, Political Science Association, proposed the vote of thanks.



Sri. P.C. George MLA inaugurates the lecture series

INVITED LECTURES DELIVERED BY EXPERTS

DEPARTMENT OF APPLIED MICROBIOLOGY AND BIOTECHNOLOGY

1. **Mr. Titto Mathew**, Senior Research Fellow, Defence Research and Development Organisation (DRDO), New Delhi, delivered a lecture on 'The Effect of Hypoxia on Alveolar Epithelium: The Role of Curcumin' on 21 August 2014.
2. **Mr. Christo Rajan**, Senior Research Fellow, Regional Cancer Centre (RCC), Thiruvananthapuram, delivered a lecture on 'Advances in DNA Microarray Technology and its Applications' on 14 October 2014.

DEPARTMENT OF HISTORY

Rev. Dr. Pius Malekandathil, Professor of History, Jawaharlal Nehru University, New Delhi, delivered an invited talk on History on 21 November 2014.

DEPARTMENT OF PHYSICS

Dr. M.M. Shajumon, Indian Institute of Science Education and Research (IISER), Thiruvananthapuram, delivered the Prof. Antony Simon memorial lecture.



Dr. M.M. Shajumon delivers the lecture



Effect of Sn doping on properties of transparent ZnO thin films prepared by thermal evaporation technique



N.H. Sheeba^a, Sunil C. Vattappalam^b, Johns Naduvath^c, P.V. Sreenivasan^d, Sunny Mathew^b, Rachel Reena Philip^{a,*}

^a Thin Film Research Lab, U.C. College, Aluva, Kerala, India

^b Material Science Research Lab-1, St. Thomas College, Pala, Kerala, India

^c Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology, Bombay, India

^d Department of Chemistry, U.C. College, Aluva, Kerala, India

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ABSTRACT

Sn doping is used as an effective method to increase conductivity and photosensitivity of highly transparent nanostructured ZnO thin films, prepared by multisource vacuum evaporation followed by air annealing. The microstructural characterizations reveal formation of polycrystalline ZnO and ZnO:Sn films, with grain size ~ 16 – 20 nm and preferred orientation along (002) plane. Increased electrical conductivity by a factor $\sim 10^2$ on doping, coupled with the enhancement of transmittance (80–90% in visible range) and photoconductivity lends these wide band gap films (~ 3.21 eV– 3.24 eV) application in photovoltaics. Fast response to ethanol (5–7 s) indicates suitability of these films in gas sensors.

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1. Introduction

ZnO is a II–VI transparent conducting oxide which can exhibit amorphous structure or can crystallize in hexagonal wurtzite or cubic zincblende. It possesses a wide bandgap >3 eV that favours transparency to photons in the visible range and shows n-type polarity. Though these properties along with the non-toxicity make it a suitable material for application in opto-electronics, the high sensitivity to humid and corrosive media and high electrical resistance often limit its use in device applications [1–3]. The free exciton energy of ≈ 60 meV, along with its direct bandgap makes it an interesting material for optoelectronic applications in the near ultraviolet (UV) region, such as UV light-emitting diodes and diode lasers [4,5]. Further, since ZnO shows variation in the resistance on exposure to gases, it is used as gas sensors.

Researchers have deposited thin films of ZnO of various nano structures by techniques such as spray pyrolysis, molecular beam epitaxy, chemical bath deposition, pulsed laser deposition, magnetron sputtering and sol–gel process [6–9]. Vacuum evaporation is generally avoided due to the corrosive nature of Zn on the glass vacuum bell jars. In our ZnO deposition process, Zn metallic films are evaporated onto glass substrates in a vacuum chamber fitted

with a metallic bell jar and the films subsequently are annealed in air to form thin films of ZnO. By this two stage technique, it is possible to deposit films of good homogeneity, when compared to the films obtained earlier in our lab by chemical bath deposition and spray pyrolysis [10]. Doping with pure elements is also much easier by this technique. In this work, we initially investigated the effect of annealing temperature on the crystallinity and transparency of the ZnO films using XRD and UV–Vis transmittance spectra, by selecting the annealing temperatures as between 200°C and 350°C . Since among these, the 350°C annealed films are found to have better crystallinity, transmittance and electrical conductivity, the annealing temperature has been chosen as 350°C for Sn doping. A comparative study of electrical, optical and optoelectronic properties of undoped ZnO and Sn doped ZnO (ZnO:Sn) is done to evaluate the effect of doping. Increased electrical and photoconductivity with high transparency, exhibited by ZnO:Sn in this study indicates the enhanced suitability of doped over undoped, for application in optoelectronic devices [11,12]. Since Sn doped ZnO thin films are found to be gas sensitive, gas sensing property of the films also has been tested. Ethanol gas is used to study this property.

2. Experimental technique

ZnO and ZnO:Sn thin films are deposited on ultrasonically cleaned sodalime glass substrate by a two stage method. In the

* Corresponding author.

E-mail address: reenatara@rediffmail.com (R.R. Philip).

Solvent polarity and nanoscale morphology in bulk heterojunction organic solar cells: A case study

Ajith Thomas,^{1,4,a)} Anju Elsa Tom,^{1,a)} Arun D. Rao,² K. Arul Varman,² K. Ranjith,² R. Vinayakan,³ Praveen C. Ramamurthy,^{2,b)} and V. V. Ison^{1,b)}

¹Centre for Nano-Bio-Polymer Science and Technology, Department of Physics, St. Thomas College, Pala, Kerala 686574, India

²Department of Materials Engineering, Indian Institute of Science Bangalore, Karnataka 560012, India

³Department of Chemistry, SVR NSS College Vazhoor, Kerala 686505, India

⁴Research and Development Centre, Bharathiar University, Coimbatore, Tamilnadu 641046, India

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Organic bulk heterojunction solar cells were fabricated under identical experimental conditions, except by varying the solvent polarity used for spin coating the active layer components and their performance was evaluated systematically. Results showed that presence of nitrobenzene-chlorobenzene composition governs the morphology of active layer formed, which is due to the tuning of solvent polarity as well as the resulting solubility of the P3HT:PCBM blend. Trace amount of nitrobenzene favoured the formation of better organised P3HT domains, as evident from conductive AFM, tapping mode AFM and surface, and cross-sectional SEM analysis. The higher interfacial surface area thus generated produced cells with high efficiency. But, an increase in the nitrobenzene composition leads to a decrease in cell performance, which is due to the formation of an active layer with larger size polymer domain networks with poor charge separation possibility.

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I. INTRODUCTION

Solar cells based on organic semiconducting polymers have received considerable attention in the past few years due to their potential of providing light weight, flexible, environmentally safe, and inexpensive solar cells using solution processing methods.¹ Due to their strong absorption cross-section, they are also ideal for fabricating thin film based devices, which makes them efficient in materials saving. A commonly used organic solar cell configuration employs an active layer formed out of an electron donor-acceptor heterojunction, comprising a conjugate polymer and a fullerene derivative, to separate the photo-generated excitons. Since the conjugated polymers have strong electron donating properties and the fullerene derivatives are electron acceptors, the charge separation in organic solar cells occurs by photo induced electron transfer between the two components.^{2,3} But, a simple bilayer interface is insufficient to serve the purpose effectively due to the short exciton diffusion length of polymers by virtue of their lower dielectric constant values. A strategy that is adopted to overcome this issue is the bulk-heterojunction (BHJ) concept, in which the donor-acceptor phases are mixed to form a three dimensional interpenetrating network (distributed donor-acceptor junction) throughout the active region, to separate the excitons. The distributed active layer serves not only as the interface for charge separation within the diffusion range but also as the percolation pathways for efficient charge carrier transport to the respective electrodes.⁴ An active layer of sufficient thickness with a nanoscale morphology, ensuring a balance between large interface area and

continuous pathways for efficient charge transport, determines the power conversion efficiency of the organic solar cells. Therefore, the research on organic solar cells requires more attention in tuning the active layer morphology so as to contribute to high efficiency.

The present study is focused on analyzing the nanoscale morphology and the resulting cell performance of poly(3-hexylthiophene) (P3HT)-[6,6]-phenyl C61-butyric acid methyl ester (PCBM) based solar cells subjected to certain pre/postdeposition treatments. Though P3HT:PCBM solar cells have reached a power conversion efficiency of about 9%, there are still certain intrinsic issues to be addressed for further improvement.⁵ Conventionally, the polymer and the fullerene components are spin coated together using a common solvent and as the solvent gets evaporated, a heterojunction network spanning the entire active layer comprising phase separated polymer and fullerene domains is formed and it has been reported that the morphology of the active layer formed depends strongly on the processing conditions.⁴⁻⁷ Several approaches have been adopted by different research groups in this direction that include thermal annealing of the active layer, solvent annealing, usage of suitable additives to the coating solvent, etc. After the thermal annealing, the P3HT:PCBM blend was found to adopt a well organized structure resulting in a better crystalline phase, a condition favorable for efficient charge transport.^{8,9} The solvent annealing enhances the cell performance by allowing the active layer components to remain partially dissolved for longer time periods so that their diffusion occurs at a higher rate resulting in an improvement of the P3HT crystallinity.¹⁰⁻¹³

The presence of a processing additive is also shown as an effective route to control the bulk heterojunction morphology. It has been reported that the addition of a miscible

^{a)}A. Thomas and A. Elsa Tom contributed equally to this work.

^{b)}Authors to whom the correspondence should be addressed. Electronic addresses: isonvv@yahoo.in and praveen@materials.iisc.ernet.in

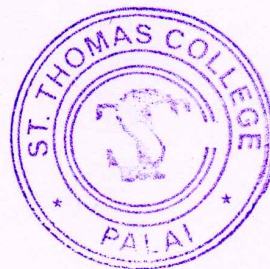
**Orientation programme on
quality issues for teachers and
students organised by the
institution**

2018-19

ST.THOMAS COLLEGE PALAI
CODE OF CONDUCT MONITORING COMMITTEE
Report of Professional Ethics Programme on Code of Conduct for
Administrative Staff
Academic Year (2018-2019)

An annual Orientation Programme **on Professional Ethics** was conducted for the Non- Teaching Staff of St. Thomas College on 09.06.2018. It was conducted as per the suggestion of the Code of Conduct Committee. Dr. Joy George, Former Principal of the college made an assessment of the overall performance of the non-teaching staff of St. Thomas College. Classes were taken by Sri. Libin Kuriakose, Dr. Biju K.C and Dr. Sunny Kuriakose on various topics. Various computer softwares useful for improving the administrative skill and speed were introduced by Smt. Sinimol Chandran, Smt. Shinu Joseph.

Palai
09/06/2018




Principal

ST.THOMAS COLLEGE PALAI
CODE OF CONDUCT MONITORING COMMITTEE
Report of Professional Ethics Programme for Students
Academic Year (2018-2019)

Before closing the college for Onam vacation, the college conducted a programme with a view to impart the values of social, moral, spiritual and environmental consciousness, and professional ethics of students. The programme was arranged in the Open-air quadrangle in front of the main block during forenoon of 17.08.2018. The Principal addressed the gathering and spoke on the need of practicing and imparting the moral, spiritual and professional ethics in student life. Teachers also spoke on various subjects related to the need of environmental consciousness and professional ethics applicable to students. The session was followed by group activities and cultural activities in which students were actively participated. Various competitions were also conducted. The programme was followed by distribution of sweets.

Palai
17/08/2018




Principal

ST.THOMAS COLLEGE PALAI
CODE OF CONDUCT MONITORING COMMITTEE
Report of Professional Ethics Programme
Academic Year (2018-2019)

A special programme for all the teaching staff was conducted during 21-22 December 2018 in the seminar hall. 79 members were present in the meeting. The meeting was organized with a view to impart awareness among the teachers about the code of conduct which is already in force in the campus and applicable to students, teachers and the supporting staff. A main Theme of the gathering was a review of professional ethics and related issues. Two sessions were dedicated for the deliberations on this subject. The Principal welcomed the gathering. The Manager of the college spoke on the occasion about the need of enforcing the code of conduct. The Principal Dr. James John spoke on the challenges on implementing the code of conduct in the campus. The Principal has made an assessment of the Code of Conduct of the institution during the current academic year. The Principal spoke on the measures including talks, classes, squad work and other measures taken to enforce the code of conduct in the campus during the current academic year. He also spoke on the steps which are to be implemented in the next academic year. Various sessions on the professional, spiritual and social ethics were conducted and talks and group discussions were organized. Open discussions were also conducted in the seminar.

Palai

21/12/2018



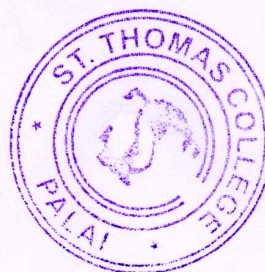

Principal

ST.THOMAS COLLEGE PALAI
CODE OF CONDUCT MONITORING COMMITTEE
Report of Annual Awareness Programme on Code of Conduct
Academic Year (2018-2019)

A special programme for all the teaching staff was conducted during 21-22 December 2018 in the seminar hall. 79 members were present in the meeting. The meeting was organized with a view to impart awareness among the teachers about the code of conduct which is already in force in the campus and applicable to students, teachers and the supporting staff. The Principal welcomed the gathering. The Manager of the college spoke on the occasion about the need of enforcing the code of conduct. The Principal Dr. James John spoke on the challenges on implementing the code of conduct in the campus. The Principal has made an assessment of the Code of Conduct of the institution during the current academic year. The Principal spoke on the measures including talks, classes, squad work and other measures taken to enforce the code of conduct in the campus during the current academic year. He also spoke on the steps which are to be implemented in the next academic year. Various sessions on the professional, spiritual and social ethics were conducted and talks and group discussions were organized. Open discussions were also conducted in the seminar.

Palai

21/12/2018




Principal

Dr. Mathew Joseph Endowment Lecture

‘Orientation to Literary Theory’

on

25 Feb. 2019.



The Department organized the Dr. Mathew Joseph Endowment Lecture on 25.02.2019 in St. Joseph’s Hall. In the inaugural Session Prof. William Zacharias, the HOD, welcomed the gathering. The inaugural address was delivered by Rev. Dr. James John Mangalathu, the Principal of the College. Prof. Siby James introduced the Resource Person.



The Endowment Lecture was delivered by Dr. Joseph Dorairaj, the Dean of English and Foreign Languages at Gandhigram Rural Institute, Gandhigram, Tamil Nadu. He is a Fulbright Scholar and an author of many books on literary theory. The topic was ‘Orientation to Literary Theory’. The talk lasted for two and a half hours from 10.30 am to 1 pm. There were more than 200 participants including 46 students from the home institution. Prof. Joby Mathew proposed the vote of thanks.





ST. THOMAS COLLEGE, PALAI

UGC APPROVED COLLEGE WITH POTENTIAL FOR EXCELLENCE
RE-ACCREDITED BY NAAC WITH A GRADE (CGPA 3.30)

RECEPTION TO MR. SIBY GEORGE IFS



The Department of Political Science organized a reception to Mr. Siby George IFS, Ambassador to Switzerland and Vatican and former student of the department on 23rd July 2018. H. E. Mar Jacob Muricken, Auxiliary Bishop of Pala and manager of

St. Thomas College Palai presided over the function. Principal Dr. James John welcomed the gathering and Vice Principal Dr. Sunny Kuriakose expressed vote of thanks.

ORIENTATION TALK



Dr. M. S. John Professor and Director of Global Studies and Politics, Central University of Kerala offered an orientation talk to the students of the Political Science on the topic 'New Trends in Political Science' on 27th July 2018 at Tiserant Hall. Dr. Shajimon K. Mathews, HOD welcomed the gathering and Dr. Stany Thomas expressed the words of gratitude.

I DC ORIENTATION

The I DC students were given an orientation talk on 25-07-2018. Mr. Manesh Varghese, HOD, Dept. of History delivered the talk. He discussed the scope of Social Sciences and various opportunities awaiting the students.

I PG FRESHER'S DAY



The Second PG students of Political Science department organised a welcoming programme for I PG students on 6th September 2018 at Tiserant Hall. HoD Dr. Shajimon K Mathews, class teacher of II PG Fr. Mathew Kurian and Dr. Stany Thomas felicitated the gathering.

ANTI-NARCOTIC CLUB

ST. THOMAS COLLEGE, PALA

Brief Annual Report 2018 – '19



OFFICE BEAREARS 2018-'19

President : Rahul Soy III; B.A
Vice President : Cyril Joy; III; B.A
Secretary : Harikrishnan G; III B. Sc.
Joint Secretary : Anandhakrishnan C. S; III B.A
Teachers in Charge: 1. Prof. Thankachan Augustine
2. Dr. Sojan Pullattu



ANTI-NARCOTIC CLUB
ST. THOMAS COLLEGE, PALA
ARUNAPURAM P. O, KERALA; 686 574



**OBSERVANCE OF ANTI - NARCOTIC DAY 2018
& ANTI - NARCOTIC AWARENESS**

(Organized jointly by “Anti – Narcotic Club”

Venue: TISSERANT HALL; Time: 1:45 pm – 3:30 pm. on 26 June 2018)

Programme

Prayer	: Vishnu Sivadas <i>III B. A. Malayalam.</i>
Introductory remarks	: Prof. Thankachan Augustine <i>Teacher in Charge, Anti-narcotic Club.</i>
Words of welcome	: Prof. Sojan Pullattu, <i>Teacher in Charge, Anti-narcotic Club.</i>
Presidential Address	: Rev. Dr. James John Mangalath, <i>Principal, St. Thomas College, Pala</i>
Key note address	: Sri. T. M. Maju, <i>Circle Inspector of Excise, Pala</i>
Solo	: Sreejith P. R <i>III B. A Malayalam</i>
Anti – narcotic pledge	: Sri. Cyril K. Mathews <i>Excise Inspector, Pala</i>
Vote of Thanks	: Rahul Soy <i>III B. A Malayalam</i>
National Anthem	



Prayer by Vishnu Sivadas



Words of Welcome by Prof. Sojan Pullattu



Presidential address by Rev. Fr. Jmaes John Mangalath, Principal



Key note address by Sri. T. M. Maju, Circle Inspector of Excise, Pala



Anti – narcotic pledge led by Sri. Cyril K. Mathews, Excise Inspector, Pala



Anti – Narcotic pledge



Vote of Thanks by Rahul Soy, President, Anti – narcotic Club

Election Literacy Club

As per the directions of Deputy Directorate, Collegiate Education, Kottayam (Letter No. G4/46991/2017, Date: 06/04/2018), Election Literacy Club was formed in St. Thomas College, Pala, on 13/06/2018. Office bearers of the Club are:

Nodal Officers : 1. Dr. Sijo K. Manuel, Asst. Prof., Dept. of Political Science
2. Sijo Mathew, Asst. Prof., Dept. of Political Science

Chairman : Aby G Cheruvallil (Student)

Vice Chairman : Sneha Soman (Student)

Campus Ambassador: Martin Joseph (Student)

Aim of the Club

To educate the students about voter registration, entire electoral process and related matters by engaging them through well designed attractive resources in hands on experience.

Activities 2018 – 2019

Enrolling Names to Voters' List

Under the auspices of Election Literacy Club, the names of 402 students were enrolled to Voters' List in connection with the General Election 2019. This process ended 30th November 2018.

EVM & VVPAT Machine Awareness

In connection with the General Election 2019, the District Election wing and Election Literacy Club gave an awareness class on EVM & VVPAT Machine to all the students of the college on 14/02/2019.



2017-18

ST.THOMAS COLLEGE PALAI
CODE OF CONDUCT MONITORING COMMITTEE
Report of Professional Ethics Programme on Code of Conduct for
Administrative Staff
Academic Year (2017-2018)

An annual Orientation Programme on **Professional Ethics** was conducted for the Non- Teaching Staff of St. Thomas College on 03.06.2017. It was conducted as per the suggestion of the Code of Conduct Committee. Dr. Sunny Joseph, Former Principal of the college made an assessment of the non-teaching staff of St. Thomas College as far as their skills, commitment and efficiency are concerned. Classes were taken by Sri. Jogy Alex, Dr. Sunil C. Mathew and Dr. Sunny Kuriakose on various topics. The programme helped them to reorient themselves in their professional approach.

Palai

03/06/2017



A handwritten signature in purple ink, appearing to read "Jogy Alex", written over a horizontal line.

Principal

ST. THOMAS COLLEGE PALAI
CODE OF CONDUCT MONITORING COMMITTEE
Report of Professional Ethics Programme for Students
Academic Year (2017-2018)

After the Gandhi Jayanthi Celebrations, the college conducted a programme with a view to impart the values of environmental consciousness, and professional and moral ethics of students. The programme was arranged in the Open air quadrangle in front of the main block during forenoon of October 02, 2017. The Principal addressed the gathering and spoke on the need of practicing and imparting the moral, spiritual and professional ethics in student life. Teachers also spoke on various subjects related to the need of environmental consciousness and professional ethics applicable to students. The session was followed by group activities and campus cleaning activities in which students were actively participated. The programme was followed by distribution of sweets.

Palai
02/10/2017




Principal

ST.THOMAS COLLEGE PALAI
CODE OF CONDUCT MONITORING COMMITTEE
Report of Professional Ethics Programme
Academic Year (2017-2018)

A special programme for all the teaching staff was conducted on 22 December, 2017 in the seminar hall. 79 members were present in the meeting. A main Theme of the gathering was a review of professional ethics and related issues. One session was dedicated for the deliberations on this subject. The Principal welcomed the gathering. The Manager of the college spoke on the occasion about the need of enforcing the code of conduct, including that applicable in the professional ethics of teachers. The Principal spoke on the challenges on implementing the code of conduct in the campus. The Principal Dr.Joy George has made an assessment of the Code of Conduct of the institution effective during the current academic year. The Principal Dr. Joy George spoke on the measures taken to enforce the code of conduct in the campus during the current academic year. He also spoke on the steps which are to be implemented in the next academic year. Talks on Professional Ethics and Social Responsibilities were given by experts in educational and social areas. Teachers came up with their suggestions during the interaction. The Principal assured that all the suggestions would be taken into consideration.

Palai
22/12/2017



A handwritten signature in purple ink, appearing to read "Dr. Joy George". The signature is fluid and cursive, written over the stamp area.

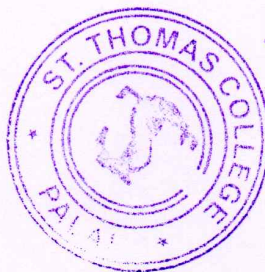
Principal

ST.THOMAS COLLEGE PALAI
CODE OF CONDUCT MONITORING COMMITTEE
Report of Annual Awareness Programme on Code of Conduct
Academic Year (2017-2018)

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Palai

22/12/2017



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Principal

ANTI-NARCOTIC CLUB

ST. THOMAS COLLEGE, PALA

Brief Annual Report 2017 – '18



OFFICE BEAREARS 2017-'18.

Prsident : Jomal Josen, III B.Sc., Mathematics
Vice President : Aslam Basheer, III B. A. Malayalam
Secretary : Gijo Mathew, II B. A. Malayalam
Joint Secretary : Appu Mani, I B. Sc. Mathematics
Co-Ordinator : Donn George Varghese, III. B.A. Politics
Teachers in Charge: 1. Prof. Thankachan Augustine
2. Prof. Sojan Pullattu



ANTI-NARCOTIC CLUB

ST. THOMAS COLLEGE, PALA

ARUNAPURAM P. O, KERALA; 686 574



OBSERVANCE OF ANTI - NARCOTIC DAY 2017

(Organized jointly by

“Walk with the Scholar” & “Anti – Narcotic Club”

Venue: TISSERANT HALL

Time: 2:00 pm – 3:30 pm. on 22 June 2017)

Programme

- Prayer : Vishnu Sivadas
II B. A. Malayalam.
- Words of welcome : **Dr. Jose K. Xavier,**
Teacher in charge, ‘Walk with the Scholar’.
- Introductory remarks : Prof. Thankachan Augustine
Teacher in Charge, Antinarcotic Club.
- Presidential Address : **Dr. Joy George,**
Principal, St. Thomas College, Pala
- Key note address : **Dr. N. M. Sebastian,**
Director, ADART Pala.
- Vote of Thanks : **Sachin Shaji**
III B. A Economics

National Anthem





ANTI-NARCOTIC CLUB
ST. THOMAS COLLEGE, PALA
ARUNAPURAM P. O, KERALA; 686 574



**AWARENESS PROGRAMME ON
IMPACTS OF ALCOHOLS, DRUG ABUSE, TOBACO & PAN MASALA**

*Venue: NEW LIBRARY SEMINAR HALL;
Time: 10:00 am – 12:55 pm on 15 Jan 2018*

Programme

- Prayer : Vishnu Sivadas
II B. A. Malayalam.
- Words of welcome : Mr. Jomal Josan,
President, Anti – Narcotic club.
- Introductory remarks
& exchange of Flag : Prof. Sojan Pullattu
Teacher in Charge, Antinarcotic Club.
- Presidential Address : **Dr. Joy George,**
Principal, St. Thomas College, Pala
- Inauguration &
Key note address : **Sri. Suresh Richard,**
Deputy Commissioner of Excise, Govt. of Kerala
- Vote of Thanks : Mr, Rahul Soy
II B. A Malayalam.







ANTI-NARCOTIC CLUB
ST. THOMAS COLLEGE, PALA
ARUNAPURAM P. O, KERALA; 686 574



AWARENESS PROGRAMME ON
IMPACTS OF ALCOHOLS, DRUG ABUSE, TOBACO & PAN MASALA
Venue: NEW LIBRARY SEMINAR HALL; Time: 1:50 pm – 3:40 pm on 15 Jan 2018

Programme

- Words of welcome : Mr. Aslam Basheer,
Vice President, Anti – Narcotic club.
- Key note address : **Sri. Mathew Kurian,**
Assistant Commissioner of Excise, Govt. of Kerala
- Felicitation : Don George Varghese
III B. A Politics, Coordinator.
- Vote of Thanks : Mr. Cyril Joy
II B. A Malayalam.

National Anthem



2016-17

Two Day Training Program on SPSS, SAS & R
 in collaboration with St. John's National Academy
 of Health Sciences & Research, Bangalore
 10-11 March 2017 by
 Ms. Nivya George & Ms. Irene Elizabeth Joy

	Name	Class	Signature
1.	Dona D'Asia Philip	I Pg Biostat	
2.	Kanika Jose	I st M.Sc. Biostatistics	
3.	Dhanya. C	"	
4.	Anya Devi	"	
5.	Jisharaj VR	"	
6.	Nimi Mohan	"	
7.	S. Prema	I st MSc Bio-Statistics	S. Prema.
8.	Anoop Jose	"	
9.	Aravind Jacob	"	
10.	Soumya Thomas	"	
11.	Manju L	"	
12.	Anjana Jose	"	
13.	Sachin Abraham	"	
14.	Jibin. K. Benny	"	
15.	Aarjsha Ali A	"	
16.			
17.	Fathima K.M	II nd MSc Biostatistics	
18.	Aswathi M-Nair	"	
19.	Aswamy P.A		
20.	Noel George		
21.	Melvin Joy		
22.	Alan Jose		
23.	Somy Kishan		
24.	Jayalakshmi M-R		
25.	Anju Ekdose		
26.	Malavika Babu		
27.	Pooja B. Nair		
28.	Reshma V.R		
29.	Feba Anna Varghese		
30.	Anu Babu		
31.	Billy M Rose	I st MSc Biostatistics	
32.	Nivya George		
33.	Irene Elizabeth Joy		

Prof. M. T. Thariyan Endowment Lecture



Sri. K. M. Mani MLA delivers the endowment lecture

Prof. M. T. Thariyan Endowment Lecture 2017 was delivered by Sri. K. M. Mani MLA, former Minister for Finance and Law, Govt. of Kerala, on the topic 'Union Budget, Demonetisation and the Impact on Co-operative Sector', on 16 February 2017. He also distributed scholarships to meritorious students at the meeting organised by the Political Science Association and presided over by Dr. Sunny Joseph, Principal.

Panel Discussion on BREXIT and the Future of the Idea of Europe

A Panel Discussion on the topic 'BREXIT and the Future of the Idea of Europe' was organised by the Department of Politics on 5 August 2016. The panellists were : Prof. Chandran Komath (Govt. College, Kottayam), Prof. Dawson D'Souza (Maharajas College, Ernakulam), Dr. Anil Kumar (University College, Trivandrum) and Dr. Mathew Varghese (Research Fellow).



The panel discussion on BREXIT in progress

Training Programme on R Programming, SAS and SPSS

A two-day training program on 'R Programming, SAS and SPSS' was organized by the Department of Biostatistics during 11-12 March 2017 in collaboration with St. John's Medical College, Bangalore. The resource persons were Ms. Nivya George and Ms. Irene Elizabeth Joy from St. John's Research Academy, Bangalore.



Dr. K. K. Jose speaks at the training programme

ST.THOMAS COLLEGE PALAI

CODE OF CONDUCT MONITORING COMMITTEE

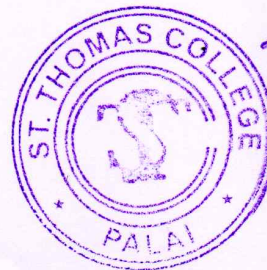
Report of Professional Ethics Programme on Code of Conduct for Administrative Staff

Academic Year (2016-2017)

An annual Orientation Programme on **Professional Ethics** was conducted for the Non- Teaching Staff of St.Thomas College on 04.06.2016. It was conducted as per the suggestion of the Code of Conduct Committee. Fr. N. V. Joseph, Former Principal of the college took class on professional ethics. It was an interactive programme on Life Skills and Professional Values. The programme helped them to reorient themselves in their professional approach. They opined that the programme was very useful to them and would help them in their professional life.

Palai

04/06/2016



A handwritten signature in purple ink, appearing to be "Fr. N. V. Joseph", written over a horizontal line.

Principal

ST.THOMAS COLLEGE PALAI
CODE OF CONDUCT MONITORING COMMITTEE
Report of Professional Ethics Programme for Students
Academic Year (2016-2017)

On the opening day itself, the college conducted a programme with an intention to extend a warm welcome for the students, and to give a message of responsible studentship, responsible citizenship, and professional and moral ethics of students. The programme was arranged in the auditorium during forenoon of June 01, 2016. The Principal addressed the gathering and spoke on the need of practicing and imparting the moral, spiritual and professional ethics in student life. Teachers also spoke on various subjects related to moral values, responsibility in student life. The session was followed by group activities and open discussion in which students were actively participated. The programme was followed by cultural activities.

Palai
01/06/2016



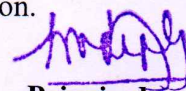

Principal

ST.THOMAS COLLEGE PALAI
CODE OF CONDUCT MONITORING COMMITTEE
Report of Professional Ethics Programme
Academic Year (2016-2017)

A special programme for all the teaching staff was conducted on 22.12.2016 in the seminar hall. 67 members were present in the meeting. The meeting was organized with a view to impart awareness among the teachers about the code of conduct which is already in force in the campus and applicable to students, teachers and the supporting staff. A main Theme of the gathering was a review of professional ethics and related issues. One session was dedicated for the deliberations on this subject. The Principal welcomed the gathering. The Manager of the college spoke on the occasion about the need of enforcing the code of conduct. The Principal spoke on the challenges on implementing the code of conduct in the campus, including the professional ethics of teachers. The Code of Conduct Committee having presented their report, the Manager came up with his suggestions. Most of the teachers felt that the overall discipline of the college should be strengthened. The Principal has made an assessment of the Code of Conduct of the institution during the current academic year. The Principal Dr. Sunny Joseph spoke on the measures including talks, classes, squad work and other measures taken to enforce the code of conduct in the campus during the current academic year. He also spoke on the steps which are to be implemented in the next academic year. Talks on Professional Ethics and Social Responsibilities were given by Fr. Davis Chirammel. Teachers came up with their suggestions during the interaction. The Principal assured that all the suggestions would be taken into consideration.

Palai
22/12/2016



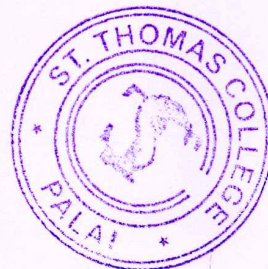

Principal


ST. THOMAS COLLEGE PALAI
CODE OF CONDUCT MONITORING COMMITTEE
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Academic Year (2016-2017)

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Palai

22/12/2016




Principal

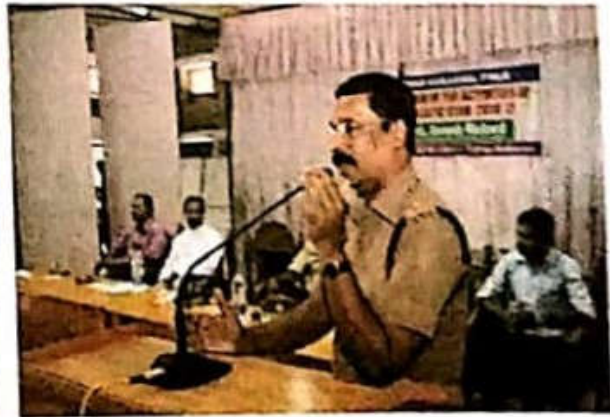
Anti-Narcotic Club, St. Thomas College Pala

Activities Report – Academic year 2016-17

The anti-narcotic club was formed in the college to sensitize the students on drug abuse and to strengthen the participation of students in anti-narcotic campaigns through organizing various programmes like awareness classes, poster exhibition, pamphlet distribution etc. During the academic year 2016-17, the Club had 125 members who worked earnestly to make the campus drug free. We did not find any students using drugs in the Campus and also no cases of selling drugs and narcotic substances nearby the Campus. The main programmes organized by the Club during this academic year were Awareness classes, Pledge taking by students to refrain from alcohol and drug abuse, Poster designing competition and Poster exhibition.

Inauguration & Awareness Class for third year Degree students

The formal inauguration of the activities of the Anti-Narcotic Club for the academic year 2016-17 was held in the college auditorium on 26 July 2016 at 2.00 P.M. Sri. Suresh Richard, Deputy Commissioner of Excise, Kottayam inaugurated the Club activities of the year at a meeting presided over by Rev. Dr. Fr. James John Mangalath, Vice Principal, St. Thomas College, Pala. It was followed by awareness class and interactive session for the III DC students of the college by Shri. Suresh Richard, Deputy Commissioner of Excise, Kottayam. At the end of the class, all the participants took a pledge to refrain from alcohol and drug abuse and to work earnestly for promoting an addiction-free society. Dr. Biju K C, Director, Anti-Narcotic Club, welcomed the function and Ashin Paul, Secretary, proposed the vote of thanks.



Poster Designing Competition

Anti-Narcotic Club, St. Thomas College Pala organized a Poster Designing Competition for the students of the college on the theme “പതയുന്ന ലഹരി, പതറുന്ന ജീവിതം”. on 21 February 2017. The response from the students was marvelous. Fifty students participated in the event. The winners were awarded cash prizes (Rs. 1000, Rs. 750 and Rs. 500 were the first, second and third prizes respectively) and certificate of merit.

Poster exhibition

All the 50 posters designed by the students were displayed in the college auditorium on 22 February 2017. The programme was intended to sensitize the students on the dangers of drugs and alcohol consumption and to send a strong message against it. All the students of the college visited the exhibition.



Awareness class for the first year and second year Degree students

Anti-Narcotic Club, St. Thomas College Pala organized a Talk on “പതയുന ലഹരി, പതറുന്ന ജീവിതം” for the first year and second year students of the college on 22 February 2017. The lecture was delivered by Sri. Suresh Richard, Deputy Commissioner of Excise, Kottayam at a meeting presided over by Dr. Sunny Joseph, Principal St. Thomas College Pala. All the students took a pledge at the end of the class to refrain from alcohol and drug abuse and to work earnestly for promoting an addiction-free society. After the talk, the chief guest distributed the cash prizes and certificates to the winners of poster designing competition which held on 21 February 2017. Prof. Roberse Thomas, Director, Anti-Narcotic Club, welcomed the gathering and Ashin Paul, Secretary, proposed the vote of thanks.



Dr. Biju K.C.
Director
Anti-narcotic club
St. Thomas College Pala

Ashin Paul
Secretary

The information given above is true and correct to the best of my knowledge and belief.


Principal

Pala
12/06/2017

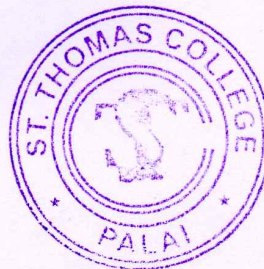
2015-16

ST.THOMAS COLLEGE PALAI
CODE OF CONDUCT MONITORING COMMITTEE
Report of Professional Ethics Programme on Code of Conduct for
Administrative Staff
Academic Year (2015-2016)

An annual orientation Programme on **Professional Ethics** was conducted for the Non- Teaching Staff of St. Thomas College on 06.06.2015. It was conducted as per the suggestion of the Code of Conduct Committee. Dr. Kurian Mattam, Former Principal of the college took class on professional ethics and Dr. Sunil C. Mathew, the IQAC coordinator introduced the regulations of UGC and NAAC which are applicable to the supporting staff to create a smooth working atmosphere in the campus. Smt. Sinimol Chandran took a class on the computer softwares useful for the administrative staff. On the whole, it was an interactive programme on Life Skills and Professional Values. The programme helped them to reorient themselves in their professional approach. They opined that the programme was very useful to them and would help them in their professional life.

Palai

06/06/2015



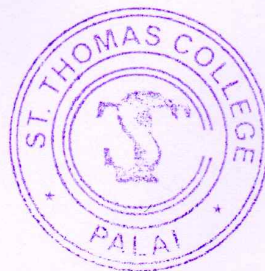
A handwritten signature in purple ink, appearing to be "M. K. Mathew", written over a horizontal line.

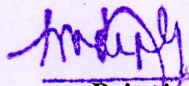
Principal

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Palai
02/10/2015




Principal

ST.THOMAS COLLEGE PALAI
CODE OF CONDUCT MONITORING COMMITTEE
Report of Professional Ethics Programme
Academic Year (2015-2016)

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Palai
25/02/2016



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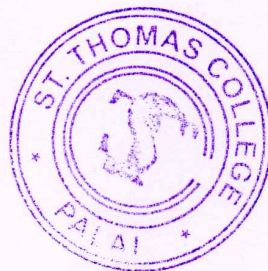
Principal

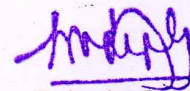
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Palai

25/02/2016




Principal

AWARENESS PROGRAMME

ON

“PROSPECTS OF LED BULBS”

AND

TRAINING ON

LED BULB ASSEMBLING

Organized by

INTERNAL QUALITY ASSURANCE CELL, ST. THOMAS COLLEGE, PALA

In association with

Department of Physics

11 March 2016

Tisserant Hall



INTERNAL QUALITY ASSURANCE CELL

ST. THOMAS COLLEGE PALAI

AWARENESS PROGRAMME ON PROSPECTS OF LED BULBS

AND

TRAINING ON LED BULB ASSEMBLING

11 March 2016

Programme

1. Prayer
2. Welcome: Dr. Sunil C Mathew, IQAC Co-ordinator
3. Talk: **Dr. Ison V Vanchipurackal,**
Assistant Professor
Dept. of Physics
St. Thomas College Palai
4. Training on LED Bulb Assembling: Dr. Ison V Vanchipurackal
5. Vote of Thanks: Mr. James Joseph, I B.Sc. Maths.

TRAINING PROGRAMME TO MAKE LED BULBS

11 March 2016

Organized by
INTERNAL QUALITY ASSURANCE CELL
St. Thomas College Palai

LIST OF PARTICIPANTS

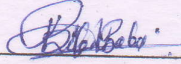
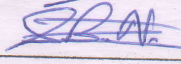
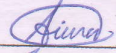

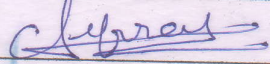
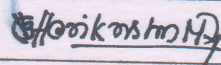
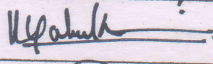


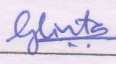
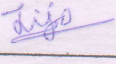

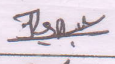
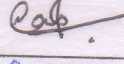
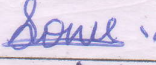
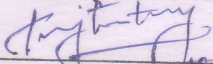
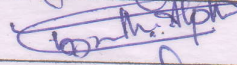


Sl. No.	Name	Class & No.	Signature
1.	Pinto George	II nd M.A. HISTORY, 335	
2.	Thomashutty Joseph	I M.COM	
3.	Sreejith Shaji	I M.COM	
4.	Jaimin Joy	I DC Maths	
5.	James Joseph	I DC Maths	
6.	Nidhin Jose	I MA Politics	
7.	Divyanshi M.V	II MA Politics	
8.	Riya Jose	II MA Politics	
9.	Anitta Thomas	I MSc Mathematics	
10.	Ann Maria Thankachan	"	
11.	Ans Augustine	"	
12.	Manjerna Maria Thomas	"	
13.	Sheena Elizabeth Sunny	"	
14.	Aiswarya Mathew	"	
15.	Christy Seethosh	"	
16.	Meenu Gomy	"	
17.	Anu Sony Jose	"	
18.	Sathi V. Tharaathil	"	
19.	Angel Varghese	I st MSc Mathematics	
20.	Anjana Sebastian	I st MSc Mathematics	

TRAINING PROGRAMME TO MAKE LED BULBS

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LIST OF PARTICIPANTS



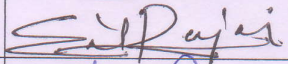
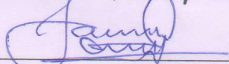
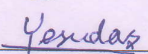
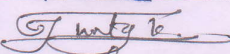
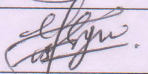

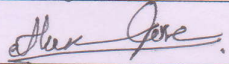
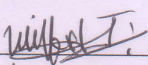
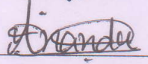
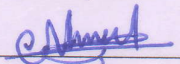


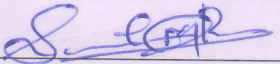
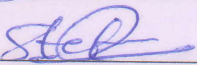
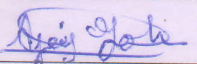



Sl. No.	Name	Class & No.	Signature
21.	Bibin Babu	IDC English, 463	
22.	RAHUL ISAAC S	I DC ENGLISH 479	Rahul.
23.	Sabin Benny	IDC " 483	
24.	Ainam Jose Kurian	IDC English 452	
25.	Joseph Savio	IDC " 475	
26.	Alfred Francis	IDC " 456	
27.	Harikrishnan .M	IDC ENGLISH - 468	
28.	Yadu Krishnan .P	" - 486	
29.	Akshay .M .Vijayakumar	I DC Eng - 453	
30.	Nicy scaria	I MSc Physics - 68	
31.	Gluta Praise George	II MSc PHYSICS - 62	
32.	Tijo Joseph	III DC Politics	
33.	Krishnaprasad .B	III DC Politics	
34.	Poojith Sathyan	II DC B.Com: 649	
35.	Carol Abraham	II DC B.Com 626	
36.	Ario Sonu S. Pappachan	II DC Politics - 414	
37.	Tajo Tony	II DC Politics - 422	
38.	Tony Mathew	I Pg Politics - 173	
39.	Ashin Paul	IDC English - 462	
40.	Anupam Sankar	IDC English - 461	

TRAINING PROGRAMME TO MAKE LED BULBS

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LIST OF PARTICIPANTS

Sl. No.	Name	Class & No.	Signature
1.	Alphy V Babu	III DC 25	
2.	Cible Mathew	III DC 212	
3.	Emil Rajan	III DC 214	
4.	James Sebastian	III DC 17	
5.	Yesudas K.A.	III DC 37	
6.	Elinto J. Kaniyampady	III DC 13	
7.	Jesmon Biju	III DC 20	
8.	Jois James	III DC 21	
9.	Alan P. Jose	III DC 3	
10.	wilfred T. Stanley	III DC 35	
11.	Anandu Mohan	III DC 8	
12.	Normal P. chacko	III DC 23	
13.	Richu Rajesh	III DC 26	
14.	Albin Joy	III DC 4	
15.	Sachin Babu	III DC 29	
16.	Stefin Thankachan	III DC 30	
17.	Ajay John)) 2	
18.	kiran Jacob)) 22	
19.	Amal Shaji	III DC 6	
20.	Nisal Ben	III DC 24	

TRAINING PROGRAMME TO MAKE LED BULBS

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LIST OF PARTICIPANTS

Sl. No.	Name	Class & No.	Signature
61.	Tomy Thomas	III DC. V. History. 707	Tomy
62.	Amal. S.	" " 685	Amal
63.	Sujesh Rejesh	III DC History. 702	Sujesh
64.	Devasiacham Benny	III DC Voc History 688	Devasiacham
65.	Akhil P. Sekhar	III DC V. History 688	Akhil
66.	Boby P. Mathu	Dept. of Mathematics	Boby
67.	Mathew Tuelit	Dept. of English	Mathew
68.	Jogen Joseph	Dept. of English	Jogen
69.	Blesson Babu	Dept. of Mathematics (Ist P)	Blesson
70.	Melbin Frances John	Ist P. Mathematics 18	Melbin
71.	Alan Sunny	I DC English	Alan
72.	JEFIN JOSE	I DC ENGLISH	Jefin
73.	Vishnu Ravi	I P. Mathematics, 15	Vishnu
74.	Jomy Thomas	III DC English 489	Jomy
75.	Rince Boby	III DC Maths.	Rince
76.	Hari Krishnam. T	"	Hari
77.	Jayn Krishnan - R	"	Jayn
78.			
79.			
80.			

2014-15

ST.THOMAS COLLEGE PALAI

CODE OF CONDUCT MONITORING COMMITTEE

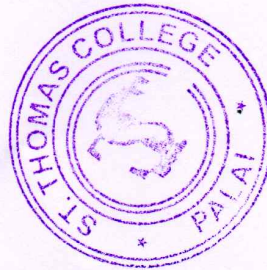
Report of Professional Ethics Programme on Code of Conduct for Administrative Staff

Academic Year (2014-2015)

An annual Orientation Programme **on Professional Ethics** was conducted for the Non- Teaching Staff of St. Thomas College on 07.06.2014. It was conducted as per the suggestion of the Code of Conduct Committee. Dr. K. K. Jose, Former Principal of the college took class on professional ethics and soft skills useful for the effective imparting of administrative skills. On the whole, it was an interactive programme on Life Skills and Professional Values. The programme helped them to reorient themselves in their professional approach. They opined that the programme was very useful to them and would help them in their professional life.

Palai

07/06/2014

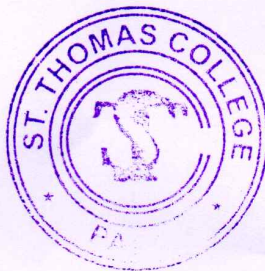


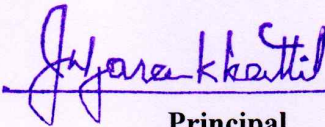
Jyara Kattil
Principal

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CODE OF CONDUCT MONITORING COMMITTEE
Report of Professional Ethics Programme for Students
Academic Year (2014-2015)

On December 01, 2014, the college conducted a programme with a view to impart the values of professional and moral ethics of students. The programme was arranged in the auditorium during the afternoon session. Classes by medical experts were arranged. The Principal addressed the gathering and spoke on the need of practicing and imparting the moral, spiritual and professional ethics in student life. Teachers also spoke on various subjects related to the professional ethics applicable to students. The session was followed by an active discussion where students were actively participated. In view of the programme the time schedule of the college was rearranged.

Palai
01/12/2014



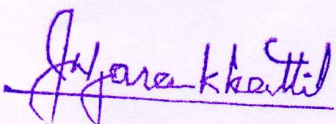

Principal

ST. THOMAS COLLEGE PALAI
CODE OF CONDUCT MONITORING COMMITTEE
Report of Professional Ethics Programme
Academic Year (2014-2015)

A meeting of all the teaching staff including permanent, guest and ad-hoc categories were conducted on 28.03.2015 in the seminar hall. The meeting was organized with a view to impart awareness among the teachers about the code of conduct which is already in force in the campus and applicable to students, teachers and the supporting staff. A main Theme of the gathering was a review of professional ethics and related issues. One session was dedicated for the deliberations on this subject. The Manager of the college spoke on the need of implementing, revising and regulating the code of conduct on professional ethics and he has made an assessment of the Code of Conduct of the institution during the current academic year. The Principal Fr. N. V. Joseph spoke on the measures which have already taken during 2014-2015 including talks, classes, squad work and other measures taken to enforce the code of conduct in the campus. He also spoke on the steps which are to be implemented in the next academic year. Teachers came up with their suggestions during the interaction. The meeting came to an end with the assurance by the Principal that the suggestions would be taken into consideration.

Palai
28/03/2015




Principal

ST. THOMAS COLLEGE PALAI

CODE OF CONDUCT MONITORING COMMITTEE

Report of Annual Awareness Programme on Code of Conduct Academic Year (2014-2015)

A General Staff meeting of all the teaching staff including permanent, guest and ad-hoc categories were conducted on 28.03.2015 in the seminar hall. The meeting was organized with a view to impart awareness among the teachers about the code of conduct which is already in force in the campus and applicable to students, teachers and the supporting staff. The Manager of the college spoke on the need of implementing, revising and regulating the code of conduct and he has made an assessment of the Code of Conduct of the institution during the current academic year. The Principal Fr. N. V. Joseph spoke on the measures which have already taken during 2014-2015 including talks, classes, squad work and other measures taken to enforce the code of conduct in the campus. He also spoke on the steps which are to be implemented in the next academic year. Teachers came up with their suggestions during the interaction. The meeting came to an end with the assurance by the Principal that the suggestions would be taken into consideration.

Palai

28/03/2015



Fr. N. V. Joseph

Principal