

# International Seminar on Luminescence Materials 9-10<sup>th</sup> December, 2022 [ISLM-2022]

*Organized by*

Department of Physics,  
All Saints' College, Thiruvananthapuram  
Mahatma Gandhi College, Thiruvananthapuram  
Sanatana Dharma College, Alappuzha  
Department of Nanoscience & Nanotechnology,  
University of Kerala

*In Collaboration with*

**Luminescence Society of India**

Regd. No. GJ/1156 September 1996

C/O Applied Physics Department

Faculty of Technology and Engineering, M.S.  
University Baroda, Baroda-390001, Gujarat

**Venue: House Boat, Back waters of Allepey  
Kerala, India**



**Chair: Dr. K. V. R Murthy**

President, Luminescence Society of India

Email: [drmurthykvr@yahoo.com](mailto:drmurthykvr@yahoo.com), Cell : +91 9327225568

**Convener:**

**Dr. P S Anjana, Head,**

Department of Physics, All Saints' college, Trivandrum

**Coordinators:**

**Prof. N Gopakumar, University of Kerala,**  
Thiruvananthapuram

**Dr. Hubert Joe, Head,**

Department of Nanoscience and Nanotechnology,  
University of Kerala, Thiruvananthapuram

**Co-Conveners:**

**Dr. Lekshmi S, Head,**

Department of Physics, S D College, Alappuzha.

**Dr. Padmakumar H, Head,**

Department of Physics, M G College,  
Thiruvananthapuram.

**Send one page abstract to Convener : Dr. P S Anjana**

Convener, ISLM-2022, Department of Physics, All  
Saints' College, Thiruvananthapuram

Email: [islmkerala2022@gmail.com](mailto:islmkerala2022@gmail.com).

Mob. No.: 9495628015.

**The seminar will be in hybrid mode**

The seminar will be held in a house boat



## Overseas Speakers:

Prof. B V R Chowdari, Singapore

Dr. R P Rao, USA

Prof. S.B Jonnalagadda, South Africa,

Dr.V Singh, Korea

Prof. Ming, China (online)

Prof. K V R Chary, USA(online)

Prof.W.Strek, ILSR, Poland

Prof. Dirk Poelman, Ghent University, Belgium  
(online)

Dr. Mouftahou B. Latif, Nigeria(online)

Dr. K R Nagabushana. Brazil

## National Speakers

Prof. A K Tyagi, BARC, Mumbai

Prof. K. V. R. Murthy, MS University – Baroda

Prof. B N Jagtap, IIT M

Prof. S. J. Dhoble, RTMNU – Nagpur

Prof. D Dinakar, NIT Warangal

Dr. Karunakaran Venugopal, CSIR-NIIST – Trivandrum

Prof. D. Harnath – NIT – Warangal

Dr. L Giribabu, CSIR- IICT, Hyderabad

Prof. Christopher S, HBNI, Mumbai

Dr. Pradip Kumar, AERB, Mumbai

Dr. J N Reddy, Nucleonix, Hyderabad,

Dr. K V K Gupta, Kwaliti Photonics, HYD

Aitha Kishore, Pune

Dr. S N Achary, BARC, Mumbai

Prof. D P Bisen, Pt. RSURaipur

Prof. N Brahme, Raipur

Prof. Sadhana Agarwal, NIT, Raipur

Prof. Pradeep, NIT, Calicut

Prof. Reji Varghese – IISER – Trivandrum

Dr. C. Vijaykumar, CSIR-NIIST – Trivandrum

Dr. Joshy Joseph, CSIR-NIIST – Trivandrum

Dr. Jatish Kumar – IISER – Thirupati

Dr. Jino George – IISER – Mohali

Dr. Ravikumar Kanaparthi – Central University of Kerala

Dr. Subhasis Panja, CSIR-NPL-New Delhi

S Prashant Kumar, CSIR- IICT, Hyderabad

Prof. Y H Gandhi, MSU Baroda

Prof. M Srinivas, MSU Baroda

Dr. Prashanta, Bangalore

Dr. M Kennedy, Chennai

Prof. Jagjeet Kaur, Durg

Prof. Anjali Oudhya, Raipur

Dr. Sivakumar, IIT Hyderabad

Dr. S. P Singh, CSIR- IICT, Hyderabad

Dr. Vijas Dubay, Raipur

Dr. Jaisimhadri, DTU, Delhi

*Reshmi*

Principal

All Saints' College  
Thiruvananthapuram-7



## Themes of ISLM -2022

ISLM -2022 envisages diversified and multi-disciplinary technical sessions; amongst few are plenary lectures and an exhibition of equipment and other materials. Latest developments in the field of luminescence research and its applications will be reviewed and the conference is expected to provide an interactive platform to the academia, researchers and the industry. Participations from different industries, universities and academic institutions from all over the country are anticipated.

The organizing committee hereby invites scientists/technologists engaged in basic as well as applied research in Universities, Research Institutions and Industries to participate. The scientific sessions will comprise plenary talks, invited talks, Technical Talks and contributed papers (both oral and poster) on the following topics:

1. PL, EL, TL and OSL applications
2. Phosphors and nanophosphors (preparation and characterization)
3. Photonic materials and lasers
4. Luminescence from glasses and glass ceramics
5. Luminescence from organic compounds
6. Luminescence in gemstones and diamonds
7. Luminescence for improving agriculture productivity
8. Mechano, sono and chemiluminescence
9. Optoelectronic devices (LEDs, OLEDs, Fiber optic sensors, etc.)
10. Radiations effects on luminescence and dosimetry, Luminescence dating, Space dosimetry
11. Luminescence instrumentation
12. Phosphors for LED applications
13. Phosphors for improving efficiency of solar cells.

The seminar presentations and deliberations will be in English.

## Call for abstracts

Authors should submit an one page abstract of an original, unpublished paper not exceeding 500 words without figures or tables. Each registered participant can submit two abstracts only. Abstracts may be submitted via e-mail:

[islmkerala2022@gmail.com](mailto:islmkerala2022@gmail.com)

## Proceedings

All the abstracts accepted from registered participants will be published in the conference proceedings. Selected papers presented at ISLM-2022 are planned to be published in the AIP Conference Proceedings (Processing fee may apply)

## Registration fee :

LSI Members: Rs.3000/- Others: Rs.3000/- Online: Rs.2000/-

Accompanying Persons: Rs.2000/-  
Overseas: USD:200/-

Registration form can be downloaded from the website:

<https://islm2022.weebly.com/>

and send to [islmkerala2022@gmail.com](mailto:islmkerala2022@gmail.com)

All the participants are requested to book their own accommodation. The house boat room charges are Rs,3500/- per night sharing two.

For Accommodation Details Contact :

Dr. Rakesh Chandran  
(Mob No. 9446252335)

## Payment Details:

Account Name: Luminescence Society of India

Bank: Bank of Baroda

Account Number: 05780100004045

Swift Code: BARBODANDIA (0=Zero)

## Local Organizing Committee :

Dr. Veena Suresh Babu, All Saints' College, Thiruvananthapuram  
Ms. Dhanya Jose, All Saints' College, Thiruvananthapuram  
Dr Deepa V, M G College, Thiruvananthapuram  
Dr J M Raj, M G College, Thiruvananthapuram  
Dr Sujatalekshmi S, M G College, Thiruvananthapuram  
Dr Prasanth C S, M G College, Thiruvananthapuram  
Dr Vaisakhan Thampi DS, M G College, Thiruvananthapuram  
Dr Simi KG, M G College, Thiruvananthapuram  
Dr. Sreejith K Pisharady, SD College, Alappuzha  
Dr. Rakesh Chandran S B, SD College, Alappuzha  
Dr. Rajesh S R, S D College, Alappuzha  
Ms. Manju V, S D College, Alappuzha  
Dr. Sreekanth J Varma, SD College, Alappuzha  
Dr. Sreeja Sreedharan, SD College, Alappuzha  
Dr. S R Sarath Kumar, Department of Nanoscience and Nanotechnology, University of Kerala



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Principal  
All Saints' College  
Thiruvananthapuram-7

**Science and Engineering Research Board**  
(a statutory body of the Department of Science & Technology, Government of India)  
5 & 5A, LGF,  
Vasant Square Mall Sector-B, Pocket-3, Vasant Kunj,  
New Delhi - 110 070

SERB Sanction / File No:SSY/2022/00817

Date: 01.12.2022

**Brief report of the organized event**

(Financial Assistance to Seminar / Symposia)

1. Name of Academic Institution / University / Society etc. under whose auspices the Seminar / Conference / Workshop / Symposium etc. was organized:  
All Saints' College, Thiruvananthapuram in collaboration with Luminescence Society of India
2. Title of the Seminar / Conference / Workshop / Symposium etc.:  
International Seminar on Luminescence Materials [ISLM-2022]
3. Duration / Period of the organized event: 2 days, 9-10<sup>th</sup> December, 2022
4. Grant Sanctioned: Rs. 75,000/-
5. Summary of the event (Max. 1000 Words):

**A Report on "International Conference on Luminescence Materials"  
[ISLM-2022]**

**Venue: House Boat, Back waters of Alleppey Kerala, India  
9-10<sup>th</sup> December, 2022**

**Hybrid mode**

*Organized by*  
Department of Physics, All Saints' College, Thiruvananthapuram  
Department of Physics, Mahatma Gandhi College, Thiruvananthapuram  
Department of Physics, Sanatana Dharma College, Alappuzha  
Department of Nanoscience and Nano Technology, University of Kerala  
*In collaboration with*  
**Luminescence Society of India**

**Website of the seminar: <https://islm2022.weebly.com/>**

**Chair: Prof. K V R Murthy**  
President, Luminescence Society of India

**Convener: Dr. Anjana P S, Head, Department of Physics,**  
All Saints' College, Thiruvananthapuram

**Coordinators: Prof. N Gopakumar, Controller of Examinations, University of Kerala**  
**Dr. Hubert Joe, Head, Department of Nanoscience and Nanotechnology, University of Kerala**



1

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The present summary includes the two-day program of keynote address, plenary talks, invited talks, invited technical talks and presentations, which took place from 9-10<sup>th</sup> December 2022 in a hybrid mode. The event brought together some 120 plus research scholars, members of faculty, students, and key officials nationally and internationally to discuss the recent advances in luminescence. It concluded with a set of presentations both oral and poster describing new and noteworthy initiatives relevant to the seminar theme.

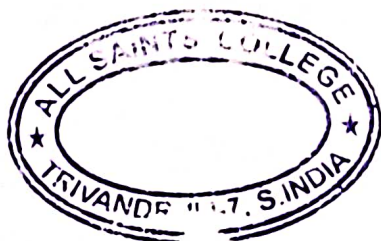
The main aim of this conference was to bring together leading academicians, researchers, and students to exchange and share their experiences and research outputs on all aspects of luminescence. It was also meant to provide a premier interdisciplinary platform to present and discuss the most recent innovations, and concerns as well as practical challenges encountered and solutions adopted in the field of Luminescence. The committee finalized thirteen themes and the conference preparations started with the call for abstracts and we received 120 abstracts. The next step was the call for papers, and 20 papers gave its way to Publication in Current Science [under process]

**Website of the seminar:** <https://islm2022.weebly.com/>

The seminar started with a welcome note by Dr. Anjana P S, Convenor of ISLM-2022 emphasizing the speciality of the venue of the seminar. It is the first time a seminar is organized inside a houseboat. She welcomed all the delegates participating in the seminar from different corners of the globe and briefed about the objectives of the seminar. Prof. B V R Chowdari, [Senior Executive Director & President Emeritus, Materials Research Society of Singapore, Adjunct Professor of Materials Science & Engineering, NUS & NTU Singapore] inaugurated the function by lighting the lamp. The Book of Abstracts was released during the function. In the inaugural address Prof. Chowdari emphasized the significance and opportunities of Materials in the present scenario. Prof. K V R Murthy, President of Luminescence Society of India addressed the function and briefed the vision of the Society. The keynote address was delivered by Prof. KVR Murthy. The vote of thanks was delivered by Dr. Hubert Joe, one of the coordinators of the seminar.

Six Plenary talks, eight Invited talks, seven invited technical talks were delivered by scientists/academicians from various academic and R& D Institutions all over the world. As a token of appreciation mementos were given to the resource persons who were offline.

Out of the twenty one resource persons, five were from outside India. Among the 109 offline participants, 14 were senior scientists/faculty members, 44 young scientists/research scholars, 28 M. Sc. students and 20 undergraduate students from various academic institutions in and outside Kerala. There were also three industry persons from outside Kerala.



2

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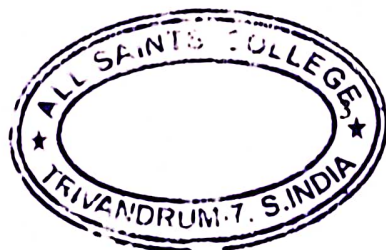


In continuation with this, over 99 research papers as oral (online and offline) and poster were presented by research students and faculty members from various colleges and research institutions. Dr. Divi Haranath, Associate Professor, Department of Physics, NIT, Warangal and Dr. Giri Babu, Scientist, IICT-CSIR, Hyderabad were the evaluators for the oral presentations which were conducted offline. The online oral presentations were conducted by the judges on the evening of the first day and the morning session of the second day. Dr. Saravana Kumar, Assistant Professor & Head of Physics, N S S College, Pandalam and Dr. H Padmakumar, Assistant Professor and Head of Physics, M G College, Thiruvananthapuram were the evaluators. The poster presentations were conducted from 12 – 2 pm on 09.12.2022. The evaluators were Prof. K V R Murthy and Dr. Prasantha from CSIR, Hyderabad. A banquet dinner was also arranged on the first day of the seminar.

**Cash Awards and Certificates were distributed to Best oral and Poster presentations. Materials Research Society of Singapore sponsored the awards.**

Selected papers will be published by *Current Science* (ISSN 0011-3891). Current Science is indexed by Web of Science, Current Contents, Geobase, Chemical Abstracts, IndMed and Scopus. The Impact Factor of the journal for the year 2021 is 1.169.

The seminar came to an end by the Valedictory Session. The Valedictory session was commenced at 3:30 pm by the prayer song by our students. Dr. Lekshmi S, Head, Department of Physics, SD College, welcomed the gathering. The L S I President Prof. K V R Murthy presided over the function. Prof. N Gopakumar, one of the coordinators of the seminar on his address mentioned that the research in science should be for the betterment of society. Reflections and feedback were received from the participants of the seminar. As a token of appreciation for the service rendered for the ISLM 2022, mementos were presented to the Heads of the departments of organizing colleges, Coordinators and Convenor by Prof. K V R Murthy, President LSI. The Convenor of this seminar, Dr. P S Anjana gave a vote of thanks to SERB, the funding agency, Luminescence Society of India, Managements of organizing colleges, Principals, resource persons, guests and all faculty members and students for their cooperation for making this event a success. The meeting came to an end by the National Anthem at 4:30 pm.



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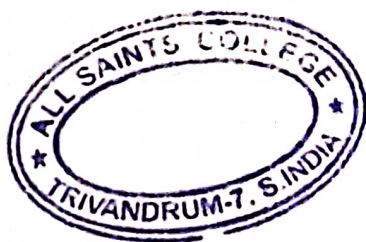
**Participation Information:**

S. No	Participation in the event	Nos.
I.	Key-note speaker/Inaugural Address	2
II.	Senior Scientist	14
III.	Young Scientist/Research Scholars	44
IV.	Postgraduate Students	28
V.	Undergraduate Students	20
VI.	Industry persons	3
VII.	Other category (Please specify each category)	Nil

**Dr. ANJANA P.S.**  
 Assistant Professor and Head  
 Research Supervisor  
 Department of Physics  
 All Saints' College  
 Thiruvananthapuram - 07  
 Kerala

(Dr. Anjana P S)

Convener, ISLM 2022  
 Assistant Professor & Head  
 Department of Physics  
 All Saints' College,  
 Thiruvananthapuram



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 All Saints' College  
 Thiruvananthapuram - 7



**Photographs Section:** Please paste high resolution photographs in given spaces below or may besubmitted directly on online / email in JPEG format.

The seminar sessions are uploaded on youtube <https://www.youtube.com/watch?v=b9WfZaNRspo>  
<https://youtu.be/L9ydOWg3y0s>

**1. Inaugural Session**



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5

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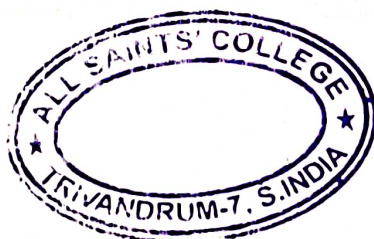


Release of Proceedings



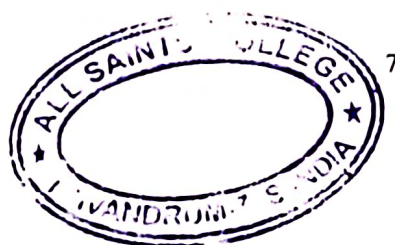
General Photographs

Plenary/Invited talks



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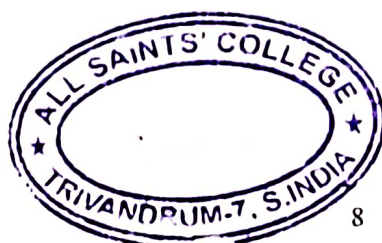




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### Oral Presentations



8

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### Audience



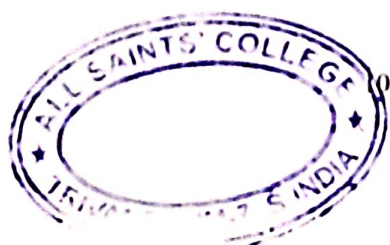
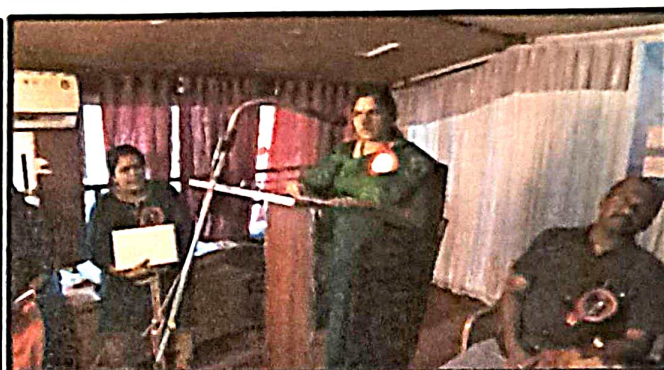
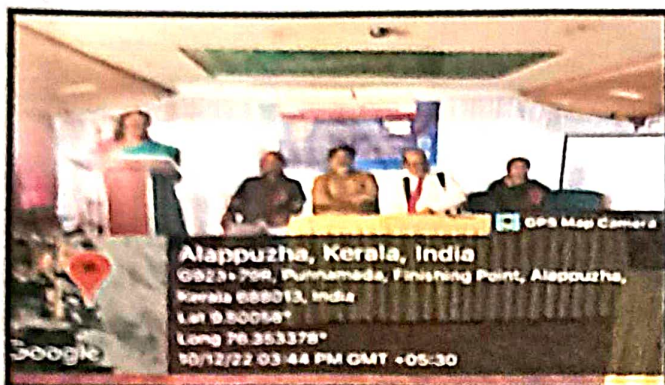
### Lunch



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# Valedictory Function



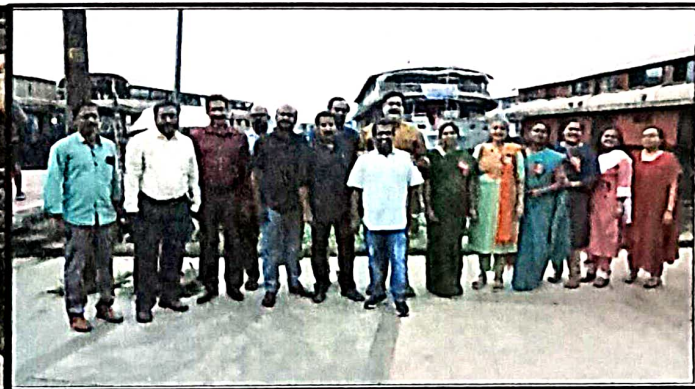
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 All Saints' College  
 Thiruvananthapuram-7



**Cash Awards and Certificates were distributed for best oral and poster presentations**



**General Photographs**



**Dr. ANJANA P.S.**  
Assistant Professor and Head  
Research Supervisor  
Department of Physics  
All Saints' College  
Thiruvananthapuram - 07  
Kerala



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All Saints' College  
Thiruvananthapuram-7

*Dr. PS*



# INTERNATIONAL SEMINAR ON LUMINESCENCE MATERIALS

## ISLM 2022

9-10<sup>th</sup> December, 2022

Venue: House Boat, Back waters of Alleppey, Kerala, India

Department of Physics, Al Sahasra College, Thiruvananthapuram  
Department of Physics, Mahatma College, Thiruvananthapuram  
Department of Physics, Sathya Sai Institute of Higher Learning, Kanyakumari  
Department of Physics, Anna University, Chennai



and

Luminescence Society of India (Regd. No. GLJ 1156)

## CERTIFICATE

This is to certify that Prof. Dr. Mr. M. Amala M.L., Research Scholar, <sup>University of Kerala</sup> participated in INTERNATIONAL SEMINAR ON LUMINESCENCE MATERIALS (ISLM 2022) on the topic:

*Synthesis and characterization of alkaline earth-based lanthanum  
alumno-borate glasses.*

Dr. P. S. Anjana

10.12.2022

Prof. K. V. R. Murthy

President, Luminescence Society of India





# INTERNATIONAL SEMINAR ON LUMINESCENCE MATERIALS ISLM 2022

9-10<sup>th</sup> December, 2022

Venue: House Boat, Back waters of Alleppey, Kerala, India

Department of Physics, All Saints' College, Thiruvananthapuram  
Department of Physics, Mahatma Gandhi College, Thiruvananthapuram  
Department of Physics, Sanatana Dharma College, Alappuzha  
Department of Nanoscience and Nano Technology, University of Kerala

and

Luminescence Society of India (Regd. No: GUJ/1156)

## CERTIFICATE

This is to certify that ~~Prof. Dr. Mr./Ms~~ Anjika M. S., Research Scholar of Physics, is a registered participant of INTERNATIONAL SEMINAR ON LUMINESCENCE MATERIALS [ISLM-2022] (HYBRIDE MODE)

~~Ms/She~~ presented an ~~Limited Talk/ Limited Technical Talk~~ Oral / Poster entitled

Comparison on the Photo and Thermo Luminescence characteristics of  $AlGa_{0.9}O_{0.1}$   $Eu^{3+}$  ( $Al-Zn,Mg$ ) phosphor.

Dr. P S Anjana

Convener

10.12.2022

Prof. K. V. R. Murthy

President, Luminescence Society of India



# INTERNATIONAL SEMINAR ON LUMINESCENCE MATERIALS ISLM 2022

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Department of Physics, Sanatana Dharma College, Alappuzha  
Department of Nanoscience and Nano Technology, University of Kerala

and  
Luminescence Society of India (Regd. No: GUJ/1156)



## CERTIFICATE

This is to certify that ~~Prof/Dr/Mr/Ms~~ *Dr. Dhanya Jose, Asst. Prof in Physics* is a registered participant of INTERNATIONAL SEMINAR ON LUMINESCENCE MATERIALS [ISLM-2022] [HYBRIDE MODE].  
~~Has/She presented an Invited Talk/Invited Technical Talk/Oral/Poster entitled~~  
*served as the committee coordinator [Food]*

Dr. P S Anjana  
Convener

10.12.2022

*QV*  
Prof. K. V. R. Murthy  
President, Luminescence Society of India





# INTERNATIONAL SEMINAR ON LUMINESCENCE MATERIALS ISLM 2022

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Venue: House Boat, Back waters of Alleppey, Kerala, India

Department of Physics, All Saints' College, Thiruvananthapuram  
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Department of Physics, Sanatana Dharma College, Alappuzha  
Department of Nanoscience and Nano Technology, University of Kerala  
and

Luminescence Society of India (Regd. No: GUJ/1156)



## CERTIFICATE

This is to certify that Prof. ~~Dr/Mr/Ms~~ *Revupriya M.R., Research Scholar*, is a registered participant of INTERNATIONAL SEMINAR ON LUMINESCENCE MATERIALS [ISLM-2022] [HYBRIDE MODE].  
*Mahatma Gandhi College, Thiruvananthapuram.*

~~He/She presented an Invited Talk/ Invited Technical Talk/ Oral / Poster~~ entitled  
*Temperature dependence photoluminescence studies of red emitting*  
*0.8 ZnO-0.2 SrO-Al<sub>2</sub>O<sub>3</sub>: Eu<sup>3+</sup> (0.4 mol%) phosphor for solid state lighting*

*Dr. P S Anjana*  
Convener

10.12.2022

*Prof. K. R. Murthy*  
President, Luminescence Society of India





# INTERNATIONAL SEMINAR ON LUMINESCENCE MATERIALS ISLM 2022

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Department of Physics, All Saints' College, Thiruvananthapuram  
Department of Physics, Mahatma Gandhi College, Thiruvananthapuram  
Department of Physics, Sanatana Dharma College, Alappizha  
Department of Nanoscience and Nano Technology, University of Kerala

and

Luminescence Society of India (Regd. No: GUJ/1156)

## CERTIFICATE

This is to certify that *Prof./Dr/Mr/Ms. Vasanthi B. Research Scholar of Physics* is a registered participant of INTERNATIONAL SEMINAR ON LUMINESCENCE MATERIALS [ISLM-2022] [HYBRIDE MODE].

*He/She presented an Invited Talk/ Invited Technical Talk/ Oral / Poster entitled*

*Synthesis and Characterization of bismuth ions sensitized barium lanthanum gallate phosphors doped with europium ions*

10.12.2022

*Dr. P S Anjana*  
Convener

*Prof. K. R. Murthy*

President, Luminescence Society of India




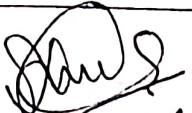



## REGISTRATION

### INTERNATIONAL SEMINAR ON LUMINESCENCE MATERIALS (ISLM 2022)

09-10 DECEMBER 2022

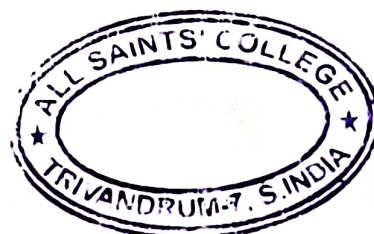
ALAPPUZHA, KERALA, INDIA

SL NO.	NAME AND ADDRESS	SIGNATURE	SIGNATURE
1	A. MILTON FRANKLIN BENIAL ASSOCIATE PROFESSOR AND HEAD PG AND RESEARCH DEPARTMENT OF PHYSICS, N.M.S.S.V.N. COLLEGE, NAGAMALAI, MADURAI-625019, TAMIL NADU, INDIA.	UPI 2339273 72588 at 5/11/2022 Google pay	for Receipt Rs 3000/- NO: 1
2	ABHIRAMI N STUDENT KERALA UNIVERSITY		
3	AJEENA.R RESEARCH SCHOLAR SANATANA DHARMA COLLEGE ALAPPUZHA		
4	AMALA M L RESEARCH SCHOLAR UNIVERSITY OF KERALA	 UPI 233624611381	Receipt no. 2 Rs 3,000/- 2/12/2022
5	AMJATH KUDOS S.K. RESEARCH SCHOLAR WOMEN'S CHRISTIAN COLLEGE NAGERCOIL		
6	ANILA E I PROFESSOR CHRIST (DEEMED TO BE UNIVERSITY)	 Receipt no: 44	SDIN 22331717274 Rs 3,000/-

  
(Co-ordinator)

**Dr. ANJANA P.S.**  
Assistant Professor and Head  
Research Supervisor  
Department of Physics  
All Saints' College  
Thiruvananthapuram - 07  
Kerala

  
Principal  
All Saints' College  
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7	ANITA VERMA RESEARCH SCHOLAR SCHOOL OF STUDIES IN PHYSICS AND ASTROPHYSICS, PT. RAVISHANKAR SHUKLA UNIVERSITY, RAIPUR, C.G. INDIA		
8	ANJALI.M STUDENT KERALA UNIVERSITY		
9	ANJU M S RESEARCH SCHOLAR UNIVERSITY OF KERALA	Rs 3,000/- 23413156329 dt 7/11/2022	Anju.m.s Receipt no: 113
10	ANJU MANOHARAN KK STUDENT KERALA UNIVERSITY		
11	ASHISH SHAKYA RESEARCH SCHOLAR SCHOOL OF STUDIES IN PHYSICS AND ASTROPHYSICS PT. RAVISHANKAR UNIVERSITY RAIPUR (C.G.), 492010 INDIA		
12	ASTHA TYAGI PHD STUDENT INDIAN INSTITUTE OF SCIENCE BANGALORE	Astha Tyagi Receipt no: 27	No: 2332273957 9422 20/11/2022 Rs 3,000/-
13	ASWATHI.H STUDENT UNIVERSITY OF KERALA		
14	ASWATHI.H STUDENT UNIVERSITY OF KERALA		
15	AVANI A V RESEARCH SCHOLAR CHRIST (DEEMED TO BE UNIVERSITY), BANGALORE	AVANI Receipt no: 41	Rs 3,000/- 2332273957 Date: 28/11/2022

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Assistant Professor and Head  
Research Supervisor  
Department of Physics  
All Saints' College  
Thiruvananthapuram - 07  
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16	BEMINA R S RESEARCH SCHOLAR MALANKARA CATHOLIC COLLEGE, MARIAGIRI		
17	CHITRKANT BELODHIYA ASSISTANT PROFESSOR PT. RAVISHANKAR SHUKLA UNIVERSITY, RAIPUR (C.G.)-492010		
18	DEEPA S SURESH RESEARCH SCHOLAR UNIVERSITY OF KERALA	<i>[Signature]</i> Rs 3000/-	Receipt no 3 233226833 490 dt 28/11/2022
19	DHANYA JOSE ASSISTANT PROFESSOR UNIVERSITY OF KERALA	<i>[Signature]</i> Rs 3000/-	Receipt no: 5 231081240345 dt 6/12/2022
20	DHANYA P K RESEARCH SCHOLAR, DEPARTMENT OF PHYSICS, UNIVERSITY COLLEGE, TRIVANDRUM		
21	DIPTI SAHU RESEARCH SCHOLAR PT. RAVISHANKAR SHUKLA UNIVERSITY RAIPUR		
22	DR ANJANA P S ASSISTANT PROF AND HEAD ALL SAINTS COLLEGE, THIRUVANANTHAPURAM	<i>[Signature]</i> PS	Receipt no: 39 233967308823 Rs 3000/-
23	DR ANUBHA SINGH GOUR PROFESSOR PT. RAVISHANKAR UNIVERSITY RAIPUR CHHATTISHGARH		

*[Signature]*  
(Co-ordinator)

**Dr. ANJANA P.S.**  
Assistant Professor and Head  
Research Supervisor  
Department of Physics  
All Saints' College  
Thiruvananthapuram - 07  
Kerala

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24	DR BEENA KUMARI K S ASSISTANT PROFESSOR DEPARTMENT OF CHEMISTRY ALL SAINTS' COLLEGE THIRUVANANTHAPURAM		
25	DR BIJINI B R ASSOCIATE PROFESSOR DEPARTMENT OF PHYSICS VTM NSS COLLEGE DHANUVACHAPURAM	<i>By</i> Receipt no: 29 Rs 3,000/-	No: 233350 771142 dt-29/11/2022
26	DR C. SHIVAKUMARA PRINCIPAL RESEARCH SCIENTIST INDIAN INSTITUTE OF SCIENCE	<i>Shivakumara</i> Rs 5,000/-	Receipt no: 4 7653275789 dt 30/11/2022
27	DR DEEPA V ASSISTANT PROFESSOR DEPARTMENT OF PHYSICS, MAHATMA GANDHI COLLEGE, THIRUVANANTHAPURAM	<i>DP</i> Receipt no: 37	Date: 30/11/2022 23364707223 Rs 3,000/-
28	DR DHANYA JOHNSON ASSISTANT PROFESSOR DEPARTMENT OF PHYSICS VIMALA COLLEGE (AUTONOMOUS), THRISSUR		
29	DR J M RAJ ASSISTANT PROFESSOR MAHATMA GANDHI COLLEGE, THIRUVANANTHAPURAM	<i>Raj</i> Receipt no: 30	234011880 353 dt 6/12/2022 Rs 3,000/-
30	DR JAGADISH VASANT PATIL PROFESSOR S. V. S. DADASAHEB RAWAL COLLEGE DONDAICHA		
31	DR JISHA.V.T ASSISTANT PROFESSOR CHRISTIAN COLLEGE KATTAKADA		

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Department of Physics  
All Saints' College  
Thiruvananthapuram - 07  
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32	DR JYOTHY PARVATHY V ASSISTANT PROFESSOR NSS ENGINEERING COLLEGE PALAKKAD		
33	DR MILIND GAJANAN MAHAJAN ASSISTANT PROFESSOR S. V. S. DADASAHEB RAWAL COLLEGE DONDAICHA		
34	DR MINI KRISHNA K ASSISTANT PROFESSOR UNIVERSITY OF CALICUT		
35	DR NISSAMUDEEN K M ASSISTANT PROFESSOR AND HEAD DEPARTMENT OF PHYSICS, KANNUR UNIVERSITY		
36	DR PADMA KUMAR H ASSISTANT PROFESSOR MAHATMA GANDHI COLLEGE, THIRUVANANTHAPURAM	<i>[Signature]</i> Receipt No 28	23341682533 Dt 30/11/22 Rs 3000/-
37	DR PRADIP ZIPARU ZAMBARE PROFESSOR S. V. S. DADASAHEB RAWAL COLLEGE DONDAICHA		
38	DR RAJESH R ASSISTANT PROFESSOR N.S.S. COLLEGE, NEMMARA PALAKKAD		
39	DR SALINIGOPAL M S ASSISTANT PROFESSOR APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY TRIVANDRUM	<i>[Signature]</i> Receipt No 28	Rs 3,000/- dt 21/11/22 SBIN: 1232406395

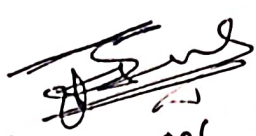

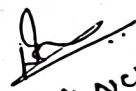
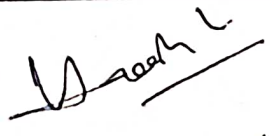
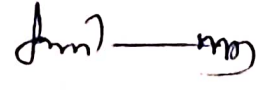
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Assistant Professor and Head  
Research Supervisor  
Department of Physics  
All Saints' College  
Thiruvananthapuram - 07  
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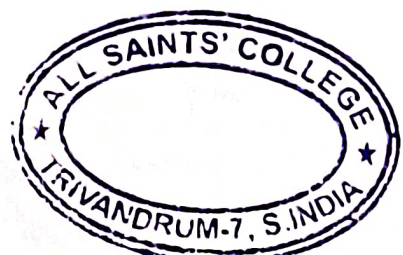


40	DR SARAVANA KUMAR S. ASSISTANT PROFESSOR NSS COLLEGE PANDALAM	 Receipt no: 006	dt 7/12/22 Rs 3,000/- 234132034005 SBI
41	DR SUNITHA A P ASSISTANT PROFESSOR IN PHYSICS UNIVERSITY OF CALICUT		
42	DR VEENA SURESH BABU ASSISTANT PROFESSOR ALL SAINTS' COLLEGE THIRUVANANTHAPURAM	 Receipt no 38	Rs 3,000/- IMP 52341079097 dt 7/12/22
43	ELSA SUSAN ZACHARIAH RESEARCH SCHOLAR CHRISTIAN COLLEGE CHENGANNUR	 Receipt no. 111	Rs 2,000/- 23349676418 dt 29/11/22
44	FATHIMA A STUDENT KERALA UNIVERSITY		
45	GIREESH T V STUDENT (PHD) ANNAMALAI UNIVERSITY		
46	GIRIJA NAIR ASSISTANT PROFESSOR UNIVERSITY OF KERALA		
47	HAREESH P S RESEARCH SCHOLAR NSS COLLEGE PANDALAM	 UPI 234131747907	7/12/2022 Receipt no: 10 Rs 3,000/-
48	JASIRA S V RESEARCH SCHOLAR KANNUR UNIVERSITY	 Receipt NO: 20	UPI 233455032352 for Rs 3,000/- dt 30/11/2022
49	JOHN BOSCO T STUDENT KERALA UNIVERSITY		

dy-BS  
(Co-ordinator)

**DR ANJANA P.S.**  
Assistant Professor and Head  
Research Supervisor  
Department of Physics  
All Saints' College  
Thiruvananthapuram - 07  
Kerala

  
Principal  
All Saints' College  
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50	KANCHAN TIWARI RESEARCH SCHOLAR GOVT. NAGARJUNA P G COLLEGE OF SCIENCE RAIPUR CHHATTISGARH		
51	KAROLIN P JOSE RESEARCH SCHOLAR KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES, COIMBATORE, DEEMED TO BE UNIVERSITY	<i>[Signature]</i> Receipt no: 19 Rs 3,000/-	dt 01/12/2021 UPD/233515 403306
52	KAVITA NEGI RESEARCH SCHOLAR GOVT. SCIENCE COLLEGE JABALPUR (M.P.)		
53	KAVYA J V RESEARCH SCHOLAR UNIVERSITY OF KERALA	<i>[Signature]</i> UTR: 23285254164 dt 25/11/2021	Receipt no: 15 Rs 3,000/-
54	KRISHNAPRIYA T K RESEARCH SCHOLAR COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY		
55	LEKSHMI C L RESEARCH SCHOLAR DEPARTMENT OF CHEMISTRY TKM COLLEGE OF ARTS AND SCIENCES KOLLAM -691005	<i>[Signature]</i> UTR: 2328537333649	Receipt no: 13 Rs 3,000/- dt 01/12/2021
56	LEKSHMI JAYAMOHAN RESEARCH SCHOLAR DEPARTMENT OF PHYSICS, N.S.S. COLLEGE, PANDALAM, KERALA	<i>[Signature]</i> Receipt no: 26	No: 233593337289 dt 01/12/2021 for Rs 2,000/- Cash on 9/12/2021 for Rs 1,000/-
57	LEKSHMY O RESEARCH SCHOLAR DEPT. OF CHEMISTRY MG COLLEGE TRIVANDRUM		

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Research Supervisor  
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All Saints' College  
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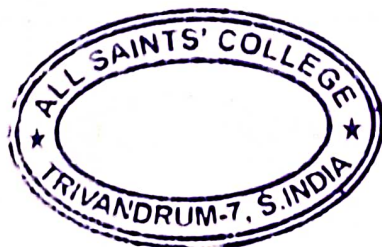
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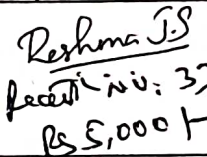
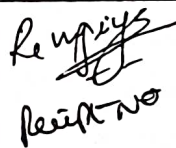
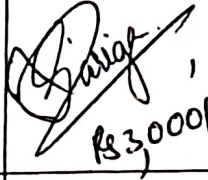
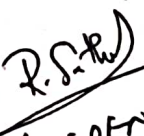
58	LIMSHA MOL M STUDENT KERALA UNIVERSITY		
59	MANJU S JOHN PHD SCHOLAR KERALA UNIVERSITY	<i>Dr. J.</i> Receipt no. 112	223338961310 dt 29/11/2022 Rs 2000/-
60	MEENAKSHI. R RESEARCH SCHOLAR DEPT OF PHYSICS MAR IVANIOS COLLEGE THIRUVANANTHAPURAM		
61	NAYANA. K RESEARCH SCHOLAR GOVT. VICTORIA COLLEGE, PALAKKAD, KERALA		
62	NEERAJ VERMA RESEARCH SCHOLAR GOVT VYT PG AUTONOMOUS COLLEGE DURG CG		
63	NIDHISHA V RESEARCH SCHOLAR UNIVERSITY OF CALICUT	Receipt no. 45 <i>Dr. J.</i> 9/12/22	233545663808 01/12/2022 Rs 5,000/-
64	PADMAKAR DNYANDEO PATIL ASSISTANT PROFESSOR KBCNMU JALGAON		
65	POOJA KV RESEARCH SCHOLAR UNIVERSITY OF KERALA	<i>Dr. J.</i> 28/11/2022	Receipt no. 9 Rs 3000/- 23322759502
66	PRIYANKA DUBEY RESEARCH SCHOLAR GOVT SCIENCE COLLEGE. JABALPUR (M.P.)		

*Dr. J. - PS*  
(Coordinator)

**Dr. ANJANA P.S.**  
Assistant Professor and Head  
Research Supervisor  
Department of Physics  
All Saints' College  
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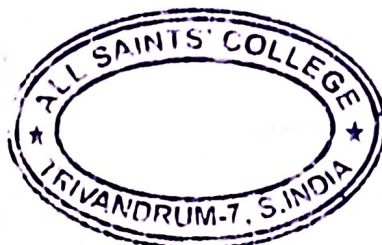


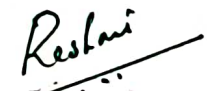
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67	PROF. N GOPAKUMAR CONTROLLER OF EXAMINATIONS UNIVERSITY OF KERALA		
68	R. PREMKUMAR ASSISTANT PROFESSOR DEPARTMENT OF PHYSICS, N.M.S.S.V.N. COLLEGE, NAGAMALAI, MADURAI-625019, TAMIL NADU, INDIA.		
69	RAJI R RESEARCH SCHOLAR UNIVERSITY OF KERALA	 Receipt no. 14	UPI: 23295036729 dt 25/11/2022 Rs 3,000/-
70	RESHMA J S PHD SCHOLAR MALANKARA CATHOLIC COLLEGE	 Receipt no. 33 Rs 5,000/-	233495092217 dt 30/11/2022
71	REVUPRIYA M R RESEARCH SCHOLAR KERALA UNIVERSITY	 Receipt no 17	Rs 3,000/- no: 7493905 dt 24/11/2022
72	S DHIVYA DHARSHINI STUDENT KERALA UNIVERSITY (SDC)		
73	DR. S. SUJATHA LEKSHMY ASSISTANT PROFESSOR UNIVERSITY OF KERALA		
74	SARIGA C LAL RESEARCHER UNIVERSITY OF KERALA	 Rs 3,000/-	Receipt no. 12 SDIN: 62234543915 dt 30/11/2022
75	SATHEESH R ASSISTANT PROFESSOR V.T.M.N.S.S COLLEGE, DHANUVACHAPURAM	 Receipt no 34	SDIN: 522399072798 dt 26/11/2022 Rs 3,000/-




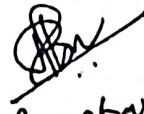
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(Co-ordinator)

**Dr. ANJANA P.S.**  
Assistant Professor and Head  
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Department of Physics  
All Saints' College  
Thiruvananthapuram - 07



  
Principal  
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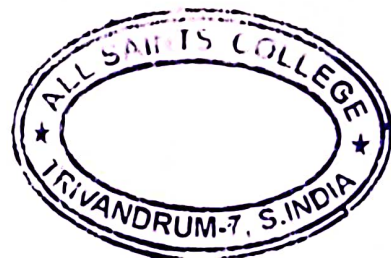
76	SATISH CHAVDAS CHAUDHARI ASSOCIATE PROFESSOR KBCNMU JALGAON MS		
77	SHILPA C K RESEARCH SCHOLAR KANNUR UNIVERSITY	 Receipt no. 24 Rs 3,000/-	OPF/ 633355328526 dt 29/11/2022
78	SHUBHAM KHUNTE RESEARCH SCHOLAR SCHOOL OF STUDIES IN PHYSICS AND ASTROPHYSICS PT. RAVISHANKAR UNIVERSITY RAIPUR (C.G.), 492010 INDIA		
79	SONAL DHURIYA RESEARCH SCHOLAR GOVT.SCIENCE COLLEGE JABALPUR		
80	SONALI PH.D STUDENT INDIAN INSTITUTE OF SCIENCE BANGALORE	 Receipt no. 24	233412718046 dt 30/11/2022 Rs 3,000/-
81	SOORYA G NATH SENIOR RESEARCH FELLOW UNION CHRISTIAN COLLEGE ALUVA	 Receipt no. 42	Rs 5,000/- 233519942914 01/12/2022
82	SUNENA SUBHASH RESEARCH SCHOLAR		
83	USHA YADAV RESEARCH SCHOLAR GOVT. V. Y. T. PG. AUTONOMOUS COLLEGE DURG CG		
84	VASANTHI B RESEARCH SCHOLAR MAHATMA GANDHI COLLEGE, UNIVERSITY OF KERALA, TRIVANDRUM	 Receipt no. 16	

Dr. P.S.

(Coordinator)

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Assistant Professor and Head  
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All Saints' College  
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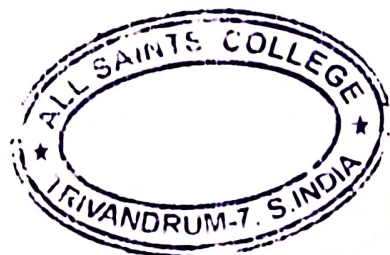


85	VEENA VP RESEARCH SCHOLAR SCHOOL OF PURE AND APPLIED PHYSICS KANNUR UNIVERSITY	<i>Janap</i> Receipt no: 23	UPI: 233339108059 at 29/11/2022 Rs 3,000/-
86 (37)	Abhilash GP Research scholar Chemistry SSAUI Sc	<i>Abhilash</i>	Cash Rs 3,000/- Receipt no: 7
87 (36)	Lakshmi Ranganatha c Research scholar Chemistry Physics UCS, Tumkur university	<i>L.R.C</i> 9/12/2022	Cash Receipt no: 8 Rs 3,000/-
88	Anand Premprakash Paper work CMS Autonomous College, Korm	<i>all/dodd</i>	Receipt no: 11 Cash Rs 3,000/-
89	Fairoos G. K. Assistant Professor Dept of Physics Sin Syed College, Taliparamba	<i>Fairoos</i> 9/12/2022 Receipt no: 2	Receipt no: 2 233580469651 at 01/11/2022
90	Dr. V. Madhu Associate prof. Kerunya deemed university	<i>V. Madhu</i> Receipt no: 25 Rs 3,000/-	Google pay UPI/P2A1 234378791242
91 (34)	Payal Priyadarshini NIT Warangal	<i>Payal</i> 09/12/2022 Rs 3,000/- Receipt no: 31	234314064746 at 9/11/2022
92 (33)	M Rakshita NIT Warangal	Receipt no: 32 UTR 234347787045	Rs 3,000/- at 9/12/2022


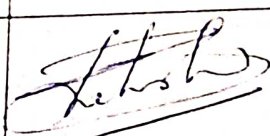
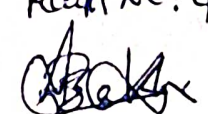
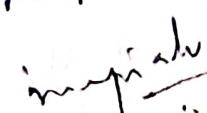
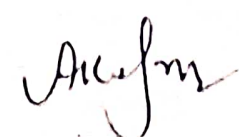
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(Co. ordina br)

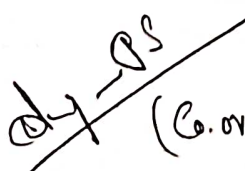
**Dr. ANJANA P.S.**  
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Research Supervisor  
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All Saints' College  
Thiruvananthapuram - 07  
Kerala

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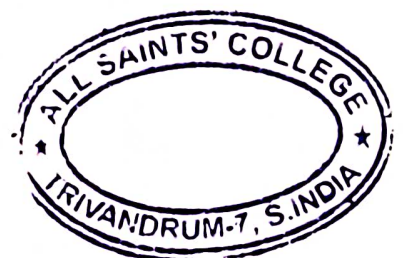


93	Henna Mary Thomas Assistant Professor Department of Physics Morning Star Home Science College, Angamaly	 Receipt no. 40	234372047911 dt 9/12/2020 Rs 3,000/-
94	B. Srinivas Rao Bavada Gujarat	Cash Receipt no. 36	Rs 3,000/-
95	G. Lakshmi Narayana Bavada Gujarat	Cash Receipt no. 35	Rs 3,000/-
96	Dr. Sreejith K. Pisharady Assistant Professor Dept of Physics S.D. College Alpy	234386871116 at 9/12/2020	Rs 3000/- Receipt no. 43
97	Dr. Lekshmi S. Associate Professor & HOD Dept of Physics S.D. College Alappuzha		Rs 3000/- Receipt no. 049 at 9/12/2020
98	Dr. Rakesh Chandrans Assistant Professor, Department of Physics, S.D. College, Alappuzha.	Receipt no. 46 	Cash Rs 3,000/- dt 9/12/2020
99	K. Suresh A. Vice-Chancellor Vardaan Centre, Govt. (Kannur College), Mandy Kannur University	Receipt no. 48 	234358275556 Rs 5,000/- Dt 9/12/2020
100	Dr. A.S. Sai Prasad Prof & HOD - Physics Vasudevan College of Engineering Thiruvananthapuram - 31		Rs 3,000/- dt 9/12/2020

  
(Co-ordinator)

Dr. ANJANA  
Assistant Professor and Head  
Research Supervisor  
Department of Physics  
All Saints' College  
Thiruvananthapuram - 07  
Kerala

  
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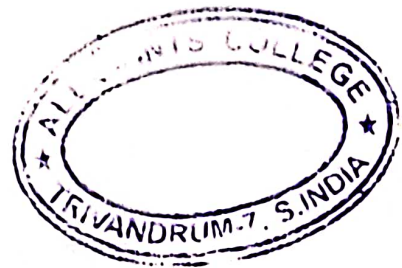


101	HARANATH DIVI Professor of physics National Institute of Technology Warangal 506004	<i>Haranath</i> Receipt No: 105 1053106	Rs 3,000/- + Rs 5,000/- 23440607161 dt 10/12/2022
102	A.V.R. REDDY Gemological Inst. of India Mumbai	<i>AVR</i> Receipt No: 50 BT/1329904739	Rs 8,000/- (Rs 3,000 online). dt 30/11/2022
103	L. GIRI BABU CSIR - IIT Hyderabad	<i>L. Giribabu</i> Receipt No (S) 1033104	Rs. 8000/- 23449352035 dt 10/12/2022
104	S. Prasanth Kumar CSIR - IIT Hyderabad	<i>S. Prasanth Kumar</i> Receipt No (S): 1013102	Rs. 8000/- 234407551088 dt 10/12/2022
105	Aachal Anilkumar Sharma Dept. of physics, NIT Warangal	Receipt No: <i>Aachal</i>	Rs 2,000/- UPI Tr. ID: 234388889369 dt 9/12/2022
106	Zambre Pradip Ziran Department of physics SV's D.R. College, Dondaicha (01)	<i>Zambre</i> Receipt No. 108	3000/- ID: 2338199073 4/12/22
107	Mahajan Milind G. SV's D.R. College, Dondaicha Maharashtra	<i>Mahajan</i> Receipt No: 109	3000/- ID: 2338199073 4/12/22
108	Patil Jagadish Vasant S.V.S.S. Dadasaheb Rawal College Dondarcha Maharashtra	<i>Patil</i> Receipt No. 110	3000/- ID: 2338199073 4/12/22


*Dr. P.S.*  
(Co-ordinator)

**Dr. ANJANA P.S.**  
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All Saints' College  
Thiruvananthapuram - 07  
Kerala

*Rashmi*  
Principal  
All Saints' College  
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109	Mr. R Devika Math Research Scholar MG College, Thiruvananthapuram Online oral Presentation.	 Receipt No: 114	Rs 2000/- Cash dt 10/12/2020

  
 (Coordinator)

**Dr. ANJANA P.S.**  
 Assistant Professor and Head  
 Research Supervisor  
 Department of Physics  
 All Saints' College  
 Thiruvananthapuram - 67  
 Kerala

  
**Principal**  
 All Saints' College  
 Thiruvananthapuram-7

