



International Conference on Advanced Perspectives in Materials Science (ICAPMS – 2025)

7th January, 2025

organized by

**PG & Research Department of Physics
Jamal Mohamed College
(Autonomous)**

Accredited with A++ Grade by NAAC (4th Cycle) with
CGPA 3.69 out of 4.0 (Affiliated to Bharathidasan University)
Tiruchirappalli – 620 020, India

in Association with

Indian SpectroPhysics Association (ISPA)
Chennai, TamilNadu, India

About the Conference

The International Conference on Advanced Perspectives in Materials Science is organized to facilitate young students and scholars to have from renowned scientists, researchers and experts a glimpse of the advanced perspectives of research in the field of Materials Science. They are provided with opportunities through poster and paper presentations to present their findings, get them peer reviewed by the best in the field so as to instill in them confidence and enthusiasm and guide them towards meaningful research.

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INVITED SPEAKERS

Prof. M. Lakshmanan F.N.A.Sc., F.A.Sc., F.N.A., FTWAS



*Professor of Eminence
DST-SERB Distinguished Fellow,
Bharathidasan University, Tiruchirappalli*

Prof. Jiban Podder, Ph.D., F.B.A.S.



*Professor, Department of Physics
Dean, Faculty of Science
Bangladesh University of Engg. & Tech. (BUET)
Bangladesh*

Prof. S. Gunasekaran, Ph.D., D.Sc.



*Dean (R&D)
St. Peter's Institute of Higher Education
and Research, Chennai*

Prof. S. Jerome Das, Ph.D..



*Former Professor
Department of Physics
Loyola College, Chennai*

Prof. (Dr.) Nandakumar Kalarikkal



*Director, International Centre for Ultrafast Studies
Senior Professor, School of Pure & Applied Physics
Mahatma Gandhi University, Kottayam, Kerala
Fulbright Fellow & Professor@Lorraine, IJL, France*

Prof. B. Sundrakannan, Ph.D.



*Professor & Head, Department of
Physics, Manonmaniam Sundranar
University, Tirunelveli*

Prof. M.Selvapandiyan, Ph.D.



*Professor & Head, Department of Physics
Periyar University Centre for PG &
Research Studies, Dharmapuri*

Dr. P. Janani, Ph.D.



*Instructional Designer, Head (Academics)
Echtian Contents Private Limited
Mumbai*

About the College

Jamal Mohamed College (Autonomous), Tiruchirappalli, India - a religious minority institution, was founded in the year 1951. From a humble beginning seventy four years ago, the college has grown from strength to strength and is presently a multi-disciplinary institution offering higher education to a large section of society. The college was granted autonomy status by the UGC, Government of Tamil Nadu and its affiliating university (Bharathidasan University), from the academic year 2004-2005. The college has been supported under various central schemes such as the DST-FIST, DBT-Star College Scheme, UGC-NSQDF. During 2024 it bagged the 59th Rank in NIRF. Currently it is accredited with A++ Grade by NAAC (4th Cycle) with CGPA 3.69 out of 4.0.

About the Department

The Department of Physics with its excellent infrastructural and laboratory facilities and well qualified staff, is offering UG, PG and Ph. D. courses. Taking advantage of the autonomy granted to the college and in cognizance of the emerging trends in Physics research and education, the department has been introducing new courses catering to the academic and employment aspirations of its students. With DST FIST financial assistance, the department has added FT-Raman Spectrometer to foster in-house research. It has entered into partnership (MOUs) with premier institutes to facilitate information interchange among the students, scholars and staff. The Vainu Bappu Astronomical Club, HAM Radio Club, Science Siragagul Team of the department cater to the variegated interest of the students, strengthening their knowledge base and building in them leadership qualities.

About ISPA

Indian SpectroPhysics Association (ISPA) is a brain child of Veteran Professor and Scientist Ariviyal Mudumunaivar Sethu Gunasekaran. ISPA was started on April 23, 1998, it is a registered society under whose auspices, conferences, workshops and seminars are organized. ISPA is the peak of a strong belief that enlightening young minds and empowering them to pursue research through Spectroscopy. ISPA has an enviable record of having organized 16 International conferences and 18 National Conferences. ISPA also has organized 20 State Level Technical Seminars in Physical Sciences for PG and M.Phil. students, since 1999. Indian SpectroPhysics Association (ISPA) finds its place in encouraging renowned and young scientists by honouring them with ISPA Awards in the recognition of the research findings of the scientists. 15 Veteran scientist Awards, 54 Life Time Achievement Awards, 86 ISPA Ariviyal Mudumunaivar Sethu Gunasekaran Awards, Dr. S. Mohan Awards, are given to researchers who have made excellent contributions in the field of Research, during Conferences/Seminars organized by ISPA. An international consortium has been made with the Medical University of Sofia for a tune of 1000 crore for a research project., Visit www.ispa.org.in for more details. Annual and Life Time Membership forms can be availed from the website.

Focused Areas

- Spectroscopy
- Crystal Growth
- Crystallography
- Bio Physics
- Medical Physics
- Ceramic Materials
- Drug Design
- Instrumentation
- Luminescent Materials
- DFT Analysis
- Materials Science
- Theoretical Physics
- MEMS Design
- Nanotechnology
- Nonlinear Optics
- Optoelectronic Devices
- Photocatalysts
- Polymer Composites
- Modelling & Simulation
- Surface Engineering
- Sensor & Smart Materials
- Superconducting Materials
- Semiconductor Materials
- Solar Technology
- Transport Properties
- Thin Film Technology
- Magnetic Materials
- Molecular dynamics

International Advisory Committee

Dr. Wolfgang Kiefer, Germany	Dr. H. M. Heise, Germany
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Dr. Santhosh Chidangil, Manipal	Dr. S. Arumugam, Tiruchirappalli
	Dr. M. Jamal Mohamed Jaffar, Tiruchirappalli

Awards

ISPA Veteran Scientist Award
ISPA Life Time Achievement Award
ISPA Dr. S. Gunasekaran Award
Best Presentation Awards

Important Dates

Submission of Abstracts : 26.12.2024
Intimation of Acceptance : 30.12.2024
Last date for Registration : 02.01.2025

Patrons

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Dr. A. Ishaq Ahamed

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Additional Vice Principal & Associate Professor

Dr. R. Raj Muhamed, Associate Professor

Dr. S. Shek Dhavud, Associate Professor

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Dr. J. Ebenezer	Dr L. Umar Ali Khan	Mrs. R. Geetha

Call for Abstracts

The abstract for research papers/articles should be submitted to icapms2025@gmail.com through email attachment in MS Word format (Times New Roman; line spacing 1.5 points; title 14 points; authors' names and affiliation – 10 points; content, keywords and e-mail 12 points.) The abstracts will be reviewed by an expert committee and only a select few will qualify for presentation. The posters should be of 90 x 120 cm size. The contents should be legible and clearly printed. Prizes will be awarded for the best presentations.

Note: A book of abstracts will be released at the conference, and the selected papers will be brought out as a Proceedings.

Registration and Payment Details

Students/ Research Scholars - Rs. 300
Faculty Members - Rs. 500
Industry Persons - Rs. 750

The registration fees can be paid via Netbanking to the following account as given below and the UPI Transaction Identity has to be quoted in the registration form.

Interested participants from other states (other than Tamil Nadu) may be permitted to attend the conference online upon request.

Type of Account : Current Account
Account Number : 04670200000000
Account Name : Jamal Mohamed College
IFSC Code : IOBA0000467
Bank : JMC Overseas Bank,
Branch : JMC Branch, Tiruchirappalli

Address for Communication

Dr. A. Ishaq Ahamed
Convenor, ICAPMS-2025
Dr. R. Raj Muhamed & Dr. S. Shek Dhavud
Co-Convenors, ICAPMS-2025
PG & Research Department of Physics
Jamal Mohamed College (Autonomous)
Tiruchirappalli-620 020
E-mail id : icapms2025@gmail.com
Mobile Nos: 9443590489, 9443888287 & 9443532316

Valedictory Function

Time: 03:45 p.m.

Venue: Hussainudeen Hall

03: 45 p.m.

Welcome Address

Dr. V. Kalyanavalli

Member-in-charge, Department of Physics (SF-Women)

03:50 p.m.

Report of the Conference

Dr. A. Ishaq Ahamed

Convenor, ICAPMS 2025

03:55 p.m.

Feedback

04:00 p.m.

Presidential Address

Dr. D. I. George Amalarethnam

Principal, Jamal Mohamed College

04:05 p.m.

Address by ISPA President

Prof. S. Gunasekaran, Ph.D., D.Sc.

Founder-President, ISPA

04:10 p.m.

Valedictory Address

Prof. S. Jerome Das, Ph.D.

Former Professor, Department of Physics

Loyola College, Chennai

04:20 p.m.

Felicitation

Hajee. Dr. A. K. Khaja Nazeemudeen, D.Litt (USA)

Secretary & Correspondent

Hajee M. J. Jamal Mohamed

Treasurer

Dr. K. Abdus Samad

Assistant Secretary

Dr. K. N. Abdul Kader Nihal

Member and Honorary Director

04:25 p.m.

Prize Distribution

04:30 p.m.

Vote of Thanks

Dr. R. Raj Muhamed

Co-Convenor, ICAPMS 2025

04:35 p.m.

National Anthem

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Tiruchirappalli – 620 020, India



in association with

Indian SpectroPhysics Association (ISPA)

Chennai, India

7th January, 2025

Inaugural Function

Time: 09.30 a.m.

Venue: Commerce (SF) Seminar Hall



We Cordially invite you all

Programme Schedule

09: 30 a.m.	Qirath <i>Invocation (Tamil Thai Vazhthu)</i>
09: 35 a.m.	Welcome Address <i>Dr. A. Mohamed Saleem, Head, Department of Physics</i>
09: 40 a.m.	Presidential Address <i>Dr. D. I. George Amalarethinam Principal, JMC</i>
09: 45 a.m.	Paramountcy of the Conference <i>Prof. S. Gunasekaran, Ph.D., D.Sc, Founder-President, ISPA</i>
09: 55 a.m.	Introduction of the Chief Guests <i>Dr. A. Ishaq Ahamed, Convenor, ICAPMS 2025</i>
10: 00 a.m.	Inaugural Address <i>Vigyan Shri Prof. M. Lakshmanan F.N.A.Sc., F.A.Sc., F.N.A., FTWAS Professor of Eminence, DST-SERB Distinguished Fellow Bharathidasan University, Tiruchirappalli</i>
10:10 a.m.	Guest of Honour <i>Prof. Jiban Podder, Ph.D., F.B.A.S. Professor, Department of Physics, Dean, Faculty of Science Bangladesh University of Engg. & Tech. (BUET) Bangladesh</i>
10: 20 a.m.	Release of Book of Abstracts
10: 25 a.m.	Felicitations

Hajee. M. J. Jamal Mohamed Bilal *President* **Hajee. Dr. A. K. Khaja Nazeemudeen,** *D.Litt (USA)*
Secretary and Correspondent

Hajee. M. J. Jamal Mohamed *Treasurer* **Dr. K. Abdus Samad** *Assistant Secretary* **Dr. K. N. Abdul Kader Nihal** *Member and Honorary Director*

10: 40 a.m. **Conferring ISPA Awards**

ISPA Veteran Scientist Award
*Vigyan Shri Prof. M. Lakshmanan F.N.A.Sc., F.A.Sc., F.N.A., FTWAS
Professor of Eminence, DST-SERB Distinguished Fellow, Bharathidasan University, Tiruchirappalli*
ISPA Life Time Achievement Award in the Spheres of Medical & Societal Excellence

Dr. K. Makudamudi, M.B.B.S., M.S.A.S.M.S., F.C.C.P., PG Dip Cardio (UK)
Chairman, Valarmathi Hospital

Managing Trustee, Dr. R.K. Shanmugam Educational Trust
Chairman, Dr. R.K. Shanmugam Group Of Institutions, Kallakurichi

ISPA Life Time Achievement Award in the Spheres of Administration Excellence

Thiru. A. Mathivanan
Advocate

Former Assistant Director of Collegiate Education, Chennai
ISPA Ariviyal Mudhumunaiivar Sethu. Gunasekaran Award

Prof. Balakumar Pitchai, M.Pharm., Ph.D. (Pharmacology)
Professor and Director

Research Training & Publications-The Office of Research & Development
Periyar Maniammai Institute of Science & Technology, Thanjavur

10: 55 a.m. **Vote of Thanks**
Dr. N. Peer Mohamed Sathik
Associate Professor, Department of Physics

11: 00 a.m. **High Tea**

Technical Sessions

Keynote Address	11:15 a.m. – 11:40 a.m.
<i>Vigyan Shri Prof. M. Lakshmanan F.N.A.Sc., F.A.Sc., F.N.A., FTWAS Professor of Eminence, DST-SERB Distinguished Fellow, Bharathidasan University, Tiruchirappalli</i> Topic: Nonlinear Dynamics of Ferromagnetic Spin Systems and Coupled Spin Torque Nano Oscillators	
Technical Session – I	Chair Person: Prof. S. Gunasekaran
11:40 a.m. – 12:05 p.m.	
<i>Prof. Jiban Podder, Ph.D., F.B.A.S. Professor, Department of Physics, Dean, Faculty of Science, Bangladesh University of Engg. & Tech. (BUET) Bangladesh</i>	
Technical Session – II	Chair Person: Prof. Jiban Podder
12:05 p.m. – 12:30 p.m.	12:30 p.m. – 12:55 p.m.
<i>Prof. S. Gunasekaran, Ph.D., D.Sc. Dean (R&D), St. Peter's Institute of Higher Education and Research, Chennai</i> Topic: Utilisation of Spectral Changes for Monitoring the Biochemistry of Hair Tissues of Diabetic Patients by FTIR-ATR Spectroscopy	<i>Prof. S. Jerome Das, Ph.D., Former Professor, Department of Physics, Loyola College, Chennai</i> Topic: Dendritic CuS Nanoarrays Decorated with Cu 1-x RE x O (RE = La, Dy) for Enhanced Seawater Electrolysis
Technical Session – III	Chair Person: Prof. Jerome Das
12:55 p.m. – 01:20 p.m.	02:00 p.m. – 02:25 p.m.
<i>Prof. (Dr.) Nandakumar Kalarikkal Director, International Centre for Ultrafast Studies, Senior Professor, School of Pure & Applied Physics, Mahatma Gandhi University, Kottayam, Kerala, Fulbright Fellow & Professor@Lorraine, IJL, France</i> Topic: Novel Engineered Nanomaterials for Emerging Applications	<i>Dr. P. Janani, Ph.D. Instructional Designer Head (Academics), Ecthian Contents Private Limited, Mumbai</i> Topic: Role of Reflectance Spectroscopy for Diagnosing Thyroid Disorders and Assessing the Effectiveness of an Ayurvedic Drug Thyronil in the Treatment of Thyroid
Lunch 01:20 p.m. – 02:00 p.m.	
Technical Session – IV	Chair Person: Dr. M, Jamal Mohamed Jaffar
02:25 p.m. – 02:50 p.m.	02:50 p.m. – 03:15 p.m.
<i>Prof. M.Selvapandiyan, Ph.D. Professor & Head, Department of Physics, Periyar University Centre for PG & Research Studies, Dharmapuri</i> Topic: Synthesis, Production And Analyses Of Activated Carbon Derived From Various Biomass For Energy Storage Applications	<i>Prof. B. Sundrakannan, Ph.D Professor & Head, Department of Physics, Manonmaniam Sundaranar University, Tirunelveli</i> Topic: Dielectric Energy Storage Materials for Pulsed Power Supply
Tea Break: 03:15 p.m. – 03:30 p.m.	
Oral Presentation and Poster Presentation (Parallel Session) 02:00 p.m. – 03:15 p.m.	

**International Conference on Advanced Perspectives in Materials Science
(ICAPMS – 2025)**

in association with

Indian SpectroPhysics Association (ISPA)

INAUGURATION

AGENDA

7th January 2025 (Tuesday)

Venue: Commerce (SF) Seminar Hall

- Qirath*** : P.M Mohammed Faize, III B.Sc Physics
Tamil Thai Vazhthu
- Welcome Address*** : Dr. A. Mohamed Saleem,
Head, Department of Physics
- Presidential Address*** : Dr. D.I. George Amalarethinam
Principal, Jamal Mohamed College, Trichy
- Paramountcy of the Conference*** : Prof. S. Gunasekaran, Ph.D., D.Sc.
Founder-President, ISPA
- Honouring Chief Guests**
- Introduction of the Chief Guests:** Dr. A. Ishaq Ahamed
Convenor, ICAPMS 2025
- Inaugural Address*** : Vigyan Shri Prof. M. Lakshmanan
Professor of Eminence, DST-SERB Distinguished Fellow
Bharathidasan University, Tiruchirappalli
- Guest of Honour** : Prof. Jiban Podder, Professor, Department of Physics
Dean, Faculty of Science, Bangladesh University of
Engineering and Technology, Bangladesh
- Release of Conference Proceedings***
- Felicitation*** : Dr. A.K. Khaja Nazeemudeen, D.Litt (USA)
Secretary & Correspondent

Hajee M. J. Jamal Mohamed
Treasurer
Dr. K. Abdus Samad
Assistant Secretary
- Conferring ISPA Awards***
- Vote of Thanks*** : Dr. N. Peer Mohamed Sathik,
Associate Professor of Physics

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VALEDICTION

AGENDA

7th January 2025 (Tuesday) @ 3.45 p.m. Venue: Hussainuddin Hall

- Qirath* : P.M Mohammed Faize, III B.Sc Physics
- Welcome Address* : Dr. V. Kalyanavalli
Member-in-charge, Department of Physics (SF-Women)
- Report of the Conference* : Dr. A. Ishaq Ahamed
Convenor, ICAPMS 2025
- Presidential Address* : Dr. D. I. George Amalarethinam
Vice Principal, Jamal Mohamed College, Trichy
- Address by ISPA President* : Prof. S. Gunasekaran, Ph.D., D.Sc.
Founder, President, ISPA
- Valedictory Address* : Prof. S. Jerome Das, Ph.D..
Former Professor, Department of Physics
Loyola College, Chennai
- Felicitations* : Hajee. Dr. A.K. Khaja Nazeemudeen, D.Litt (USA)
Secretary & Correspondent
- Hajee M. J. Jamal Mohamed
Treasurer
- Dr. K. Abdus Samad
Assistant Secretary
- Dr. K. N. Abdul Kader Nihal
Member and Honorary Director
- Prize Distribution & Feedback*
- Vote of Thanks* : Dr. A. Ishaq Ahamed
Convenor, ICAPMS 2025
- National Anthem*

PG and Research Department of Physics
JAMAL MOHAMED COLLEGE (AUTONOMOUS)
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Tiruchirappalli– 620 020

Report of the International Conference on Advanced Perspectives in Materials Science
(ICAPMS 2025)

The PG and Research Department of Physics, Jamal Mohamed College (Autonomous), Tiruchirappalli, organized in association with the Indian Spectrophysics Association (ISPA), Chennai, a one day International Conference on Advanced Perspectives in Materials Science (ICAPMS-2025) on 07-01-2025.

The inaugural session was presided over by Dr. D. I. George Amalarethnam, Principal of the College. Vigyan Shri Prof. M. Lakshmanan, Professor of Eminence, DST-SERB Distinguished Fellow, Bharathidasan University, Tiruchirappalli delivered the inaugural address and keynote. There were four invited talks. The first session was by the guest of honour Prof. Jiban Podder, Professor, Department of Physics, Dean, Faculty of Science, Bangladesh University of Engineering and Technology, Bangladesh. The second session was by Prof. Nandakumar Kalarikkal, Director, International Centre for Ultrafast Studies, Senior Professor, School of Pure and Applied Physics, Mahatma Gandhi University, Kerala, Fulbright Fellow & Professor @ Lorraine, IJL, France, delivered via online mode. The third session was by Prof. B. Sundrakannan, Professor & Head, Department of Physics, Manonmaniam Sundaranar University, Tirunelveli. The fourth session was by Dr. P. Janani, Senior Instructional Designer (Academic) Etchian Contents Private Limited, Mumbai.

Earlier Dr. A. Mohamed Saleem, Head of the PG and Research Department of Physics, Jamal Mohamed College welcomed the delegates. Dr. A. Ishaq Ahamed, Convenor, ICAPMS 2025 introduced the chief guests. Prof. S. Gunasekaran, Founder President of Indian SpectroPhysics Association (ISPA), delivered the paramountcy of the conference. Hajee Dr. A. K. Khaja Nazeemudeen, Secretary and Correspondent and Hajee M. J. Jamal Mohamed, Treasurer of the College felicitated the conference. Dr. K. Abdus Samad, Assistant Secretary of the College graced the occasion. On this occasion the ISPA Veteran Scientist award was conferred on Vigyan Shri Prof. M. Lakshmanan, Professor of Eminence, DST-SERB Distinguished Fellow, Bharathidasan University, Tiruchirappalli. The ISPA Life Time Achievement Awards were conferred on two persons Dr. K. Makudamudi, Chairman, Valarmathi Hospital, Chairman, Dr. R.K. Shanmugam Group of Institutions, Kallakurichi. Thiru. A. Mathivanan, Advocate, Former Assistant Director of Collegiate Education, Chennai.

The ISPA Ariviyal Mudhumunaivar Sethu. Gunasekaran Award on Prof. Balakumar Pitchai, Professor and Director, Periyar Maniammai Institute of Science and Technology, Thanjavur for his contribution in the field of research. Dr. N. Peer Mohamed Sathik, Associate Professor of Physics proposed the vote of thanks.

There were four parallel sessions for paper presentation and two poster presentation sessions. A total of 99 papers were presented and 40 posters were put up by enthusiastic students and scholars. Over 212 external participants (students/scholars and faculty) as well as 89 students of our college attended the conference apart from our own faculty.

The valedictory address began with the welcome address by Dr. V.Kalyanavalli, Member in-charge, Department of Physics, (SF-Women) and was presided over by Dr. D.I. George Amalarethinam, Principal of the College. Dr. K. Abdus Samad, Assistant Secretary of the College felicitated the conference. Prof. S. Jerome Das, Former Professor, Department of Physics, Loyola College, Chennai, delivered the valedictory address. A total of six Best Presentation prizes for both the oral and poster presentation categories were awarded. Finally, Dr. A. Ishaq Ahamed, Convenor, ICAPMS 2025 presented the report of the conference and proposed the vote of thanks.

International Conference on Advanced Perspectives in Materials Science (ICAPMS – 2025)



Dr. D. I. George Amalarethnam, Principal, Jamal Mohamed College delivering the Presidential Address
Prof. M. Lakshmanan, Professor of Eminence, DST-SERB Distinguished Fellow, Bharathidasan University, Tiruchirappalli, delivering inaugural address



Prof. S. Gunasekaran, Dean (R&D), St. Peter's Institute of Higher Education & Research, Chennai presenting theme of the conference
Our Hon'ble Secretary & Correspondent Hajee. Dr. A. K. Khaja Nazeemudeen releasing the proceedings of the conference.



Oral and Poster presentations by the participants



Prof. B. Sundrakannan, Professor & Head, Department of Physics, Manonmaniam Sundaranar University, Tirunelveli, delivering invited lecture, Prof. S. Jerome Das, Former Professor, Department of Physics, Loyola College, Chennai delivering valedictory address