

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

International Conference on Advanced Perspectives in Materials Science (ICAPMS - 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, 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.

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

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.

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

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

Technical Session – II

Chair Person: Prof. Jiban Podder

12:05 p.m. – 12:30 p.m.

12:30 p.m. – 12:55 p.m.

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

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

Topic: Utilisation of Spectral Changes for Monitoring the Biochemistry of Hair Tissues of Diabetic Patients by FTIR-ATR Spectroscopy

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

Former Professor, Department of Physics, Loyola College, Chennai

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.

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

Topic: Novel Engineered Nanomaterials for Emerging Applications

Dr. P. Janani, Ph.D.
Instructional Designer Head (Academics), Ecthian Contents Private Limited, Mumbai

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.

Prof. M.Selvapandiyan, Ph.D.
Professor & Head, Department of Physics, Periyar University Centre for PG & Research Studies, Dharmapuri

Topic: Synthesis, Production And Analyses Of Activated Carbon Derived From Various Biomass For Energy Storage Applications

Prof. B. Sundrakannan, Ph.D
Professor & Head, Department of Physics, Manonmaniam Sundaranar University, Tirunelveli

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.