



THE MADURA COLLEGE

An Autonomous Institution affiliated to Madurai Kamaraj University
Re-accredited (4th cycle) with 'A' grade by NAAC
Vidya Nagar, T.P.K. Road, Madurai – 625 011

International Conference on

ADVANCEMENTS IN THEORETICAL, EXPERIMENTAL AND OBSERVATIONAL PHYSICS (ATEOP '25)

(Hybrid Mode)

11th March 2025

Organized by

RESEARCH CENTER & PG DEPARTMENT OF PHYSICS
THE MADURA COLLEGE
Madurai – 625 011



GREETINGS!

We cordially invite you to the International Conference on "Advancements in Theoretical, Experimental and Observational Physics (ATEOP 2025)" scheduled on 11th March 2025 at the Department of Physics, The Madura College, Madurai, Tamilnadu, India.

ABOUT THE COLLEGE

The Madura College is an academic institution which stands like a towering titan between centuries. It has a hoary past spanning a century and a quarter. It has served the cause of higher education with dedication all these decades. The College offers 21 Under-Graduate Programmes, 13 Post-Graduate Programmes and 9 Ph.D. Programmes. The history of the college reads like a romantic tale. The Government had started a Zilla School in 1856 as an outcome of Macaulay's Dispatch of 1854 on Education. In 1880, a College Department was added to it and it was functioning on the premises where the Madura College Higher Secondary School now stands. An organization called the Madura Native High School Committee was then managing two schools in Madurai, the Native High School in Annakkuzhi Mandapam in West Chitrai Street and a branch of this School in the Velli Ambalam Manadapam in South Chitrai Street. The Government lent the Zilla School building to the Madura Native School Committee in 1888. The Committee saw potentialities in the institution and took over the management of the schools and the college and came to be known as the Madura College Board after registration under The Companies Act. The college became an Autonomous institution in 1978, among the first to be conferred the status in the country. The college was re-accredited with 'A' grade by NAAC in the fourth cycle.

THEMES

Atomic, molecular and optical physics (including photonics and lasers)

Quantum science and technology

Plasma science and technology

Condensed matter, surface science and thin films

Materials science (including nanotechnology)

Physical and quantum chemistry

Crystal growth and Crystallography

Biophysics, soft matter and liquids

Mathematical and statistical physics

Gravitation and cosmology

Astrophysics and space science

High energy physics

Nuclear and particle physics

Nonlinear dynamics and complex systems

Computational science and modelling (including machine learning, big data and algorithms relevant to the physical sciences)

Measurement science and instrumentation

Medical physics

Educational physics

Applied Physics with microcontroller / microelectronic devices

Keynote & Invited Speakers



Dr. G. Muralidharan
Senior Professor of Physics,
Gandhigram Rural Institute.
Theme: "Super Capacattery Applications"



Dr. K. S. Joseph Wilson
Head of the Department,
PG & Research Department of Physics,
Arul Anandar College, Madurai.
Theme: "Recent Progress in Photonic crystal Devices and their Applications"



Dr. R. V. Krishnakumar
Department of Physics,
Thiagarajar College, Madurai.
Theme: "Simple Astronomy Experiments that Produced Stunning Results"



Dr. S. A. Martin Britto Dhas
Joint Professor,
Brain Pool Fellow,
Shock waves and Gas Dynamic Laboratory,
Keimyung University, Daegu, South Korea.
Theme: "Solid state phase transition induced by acoustic shock waves".

ADVISORY COMMITTEE

Dr. Abhiram Kaushik
Postdoctoral in centre for Informatics and Computing
CIR, Ruder Boskovic Institute, Zagreb, Croatia.

Dr. Annamalai Raja
Research Professor,
Yeungnam University, South Korea.

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Thanjavur, Tamil Nadu.

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TATA Power Solar Limited,
Gangaikondan SIPCOT Industrial area.

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Dr. Boominatha Sellarajan S
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INDIA Center for Lab Grown Diamond,
IIT Madras.

Dr. Kalimuthu Moovendran
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Clarendon Laboratory,
University of Oxford, United Kingdom.

Dr. Karuppasamy A
Department of Physics,
Thiagarajar College of Engineering,
Madurai.

Dr. Kalyana Sundar J
Department of Physics,
Periyar University,
Selam.

Dr. Kasimayan Uma
Post Doctoral Researcher,
Department of Electro-Optical Engineering,
National Taipei University of Technology,
Taiwan.

Dr. Karthick Kannan Padmanathan
UKRI Research Fellow,
Microsensors and Bioelectronics Laboratory,
University of Warwick,
United Kingdom.

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Shock waves and Gas Dynamic Laboratory,
Keimyung University, Daegu, South Korea.

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Department of Physics,
Presidency College,
Chennai

Dr. Muthu Karuppasamy K
R&D Project Leader,
CRM asbl,
Belgium.

Dr. Padma Prasad K
JSS College of Arts, Commerce and Science,
Mysore.

Dr. Senthil Pandian M
Research Scientist,
Sri Sivasubramaniya Nadar College of
Engineering, Tamilnadu.

Dr. Shalika Ram Bhandari
Bhairahawa Multiple Campus,
Tribhuvan University,
Nepal.

Dr. Shanmugaraju A
Associate Professor & Head,
Arul Anandar College, Tamilnadu.

Dr. Subrata Das
Principal Scientist,
National Institute of Interdisciplinary Science
and Technology (NIIST),
Council of Scientific and Industrial Research
(CSIR),
Thiruvananthapuram, India.

Dr. Suresh Kumar Raju
Professor of Organic Chemistry,
College of Science,
King Saud University,
Riyadh, Saudi Arabia.

Dr. Venkatesh R
UGC-DAE Consortium for Scientific Research,
University Campus, Khandwa Road,
Indore, India.

Dr. Veerasingam S
Research Faculty,
Environmental Science Center,
Qatar University.

Presentation & Publication

- ❖ At least one author of each accepted paper must register and present their work during the conference.
- ❖ Presentations will be conducted either in oral or poster format, based on the decision of the organizing committee.
- ❖ Accepted and presented papers will be included in the ATEOP '25 Conference Proceedings with ISBN.
- ❖ Selected high-quality papers will be considered for publication in UGC-CARE indexed Journal @ Author's own cost.

Guidance for Abstract & Posters

Abstract : 250 words with 1.5 line spacing and corresponding author should be highlighted bold

Font style and size : Times New Roman, 12

Line spacing: 1.5

Poster size : 3ft x 3ft

Abstract submission link : <https://forms.gle/5Pqz4pz749c55GhK6>

Awards: Best Oral and Poster presentations

IMPORTANT DATES

Abstract Submission : 28th February 2025

Acceptance Intimation : 4th March 2025

Last Date for Registration : 5th March 2025

REGISTRATION FEE

Industrialist : Rs.1000/-

Faculty Members : Rs. 500/-

Research Scholars : Rs. 400/-

UG & PG Students : Rs. 200/-



BANK DETAILS FOR REGISTRATION

Name : Sivaramakrishnan S
Acc. No : 049910000096
Bank Name : India Post Payments Bank
IFSC : IPOS0000001

LINK FOR REGISTRATION : <https://forms.gle/cUNMQi8JWBUy3hZd7>

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Organizing Secretary

Dr. J. Suresh, Principal and Head of the Department

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