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Karaikudi, Tamil Nadu.

Dr. M. Jeyanthinath
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THE AMERICAN COLLEGE
Madurai, Tamil Nadu, India

SINCE 1881

(An Autonomous Institution affiliated to the Madurai Kamaraj University,
Reaccredited (3rd cycle) by NAAC with Grade "A+" CGPA - 3.47 on a 4-point scale)



INTERNATIONAL CONFERENCE ON
**RECENT ADVANCES
IN PHYSICS
ICRAP '24**

January 10 & 11, 2024

Organized by

PG & Research Department of Physics
The American College
Madurai – 625 002

Dear Sir/Madam

Greetings.

We are extremely happy to invite you to make your participation in the international conference on **"RECENT ADVANCES IN PHYSICS"** to be conducted by PG & Research Department of Physics, The American College, Madurai during January 10 and 11, 2024.

ABOUT THE COLLEGE

The American College is known for its focus on academic excellence and social relevance for the past 142 years. Originally founded by American Missionaries in 1841 and grew into a collegiate department in 1881. The College offers 43 undergraduate and 19 postgraduate programmes. There are 7 research centres offering Ph.D. programmes. The college was re-accredited (3rd cycle) by NAAC with Grade "A+" CGPA- 3.47 on a 4 point scale in 2022. Parallel undergraduate self-financed programmes in its Satellite Campus at Chattrapatti from 2015 for the benefit of the rural and less privileged students. The college has tie-ups and exchange programmes with many state, central, international industries and institutes.

ABOUT THE DEPARTMENT

The Department traces its origin back to 1913 as an undergraduate department. It was elevated with a Post Graduate Program in 1963 and with Research Programs in 1978. Four of our alumni are Bhatnagar awardees.

Curriculum in the PG and UG programmes provide the state of art knowledge in Physics with the complete sense of excitement and exploration. Currently, the department is running active research in all the thrust areas of the Physical sciences.

THEME OF THE CONFERENCE

This conference is organized to bring together the scientist from various fields in Physics to explore the recent trends in their respective research areas. This will include the following research area.

- ☆ Energy storage devices
- ☆ Nanotechnology and Polymer Nanocomposites
- ☆ Sensors
- ☆ Crystal Growth and Application
- ☆ Low dimensional semiconductors
- ☆ Computational Physics
- ☆ Applied Quantum Mechanics
- ☆ Thin film Materials
- ☆ Molecular modelling and Dynamics simulation
- ☆ Astronomy and Astrophysics
- ☆ Electrical and Electronic devices
- ☆ Communication Systems
- ☆ Smart Biomaterials & Medical Devices
- ☆ Laser & Spectroscopy
- ☆ Non Linear Dynamics
- ☆ Non Linear optical materials

WHO CAN PARTICIPATE?

Post graduate students, Research Scholars, Industrialist and Faculty members of physical and biological sciences are eligible to attend this program. No TA/DA will be provided for attending the conference.

ACCOMMODATION

Accommodation will be arranged on prior intimation with separate payment basis. **Contact**

Dr. S.S.R. Inbanathan - +91 94427 52733

ABSTRACT SUBMISSION

Abstracts in the prescribed format to be submitted on or before November 01, 2023 to

convenoricrap24@gmail.com

Abstract should not exceed 250 words. Title of the abstract should be in Times New Roman with size 14 and the text is in 12 font size with 1.5 line spacing. Selected papers will be notified for Oral / Poster presentation to your registered email. The abstracts will be published in conference proceeding with ISBN number. After peer review, full paper (more than 3 pages) will be published in the UGC Care / Scopus indexed journal. For poster presentation, size of the poster should be 1 m x 1 m.

ACCOUNT DETAILS

Name : **Bursar The American College**
Account Number : **6520299844**
IFS code : **IDIB000T003**
Bank Name : **Indian Bank, Tallakulam, Madurai**

IMPORTANT DATES

Last Date for Abstract submission : **01.11.2023**
Last Date for Full Paper submission : **20.11.2023**
Acceptance Notification : **20.12.2023**

AWARDS

Two awards will be given to the best oral and poster presentation.

REGISTRATION DETAILS

Registration Fee

Participation with presentation : **Rs. 1000/-**
Participation without presentation : **Rs. 750/-**
For other state participants alone
Online mode : **Rs. 750/-**
For International participants
Offline mode : **USD 100**
Online mode : **USD 25**

Registration can be done by online mode.

Registration Link & QR Code:

<https://forms.gle/sCsAN6JFzRLwiAV46>





THE AMERICAN COLLEGE

Madurai, Tamil Nadu, India



INTERNATIONAL CONFERENCE ON

RECENT ADVANCES IN PHYSICS ICRAP '24

January 10 & 11, 2024

Day 1

Date: 10.01.2024

Keynote Address : **Dr. Soorathep Kheawhom**
Associate Professor
Faculty of Engineering Chulalongkorn University
Bangkok, Thailand.

Session I

Invited Talk - 1

Speaker : **Dr. Vinod Kumar Saranathan**
Associate Professor, Biological Sciences
Interwoven Arts and Sciences, Krea University
Sricity, Andhra Pradesh, India

Specialization : **Biophotonics**
Time : 11:20 am - 12:10 pm **Venue : B1 Seminar Hall**

Invited Talk - 2

Speaker : **Dr. A. Pandi Kumar**
Senior Scientist, Materials Electrochemical Division
CECRI, Karaikudi, Tamil Nadu, India.

Specialization : **Graphene based Nanocomposite Materials**
Time : 11:20 am - 12:10 pm **Venue : PG Physics Smart Room**

Session II

Invited Talk - 3

Speaker : **Dr. Rajeev Ranjan**
Professor, Department of Materials Engineering
IISC, Bengaluru, India.

Specialization : **Structure and characterization of materials**
Time : 12:10 pm - 01:00 pm **Venue : B1 Seminar Hall**

Invited Talk - 4

Speaker : **Dr. Anongnat Somwangthanaroj**
Professor, Dept. of Chemical Engineering
Chulalongkorn University, Thailand.

Specialization : **Bioplastics, Nano composites**
Time : 12:10 pm - 01:00 pm **Venue : PG Physics Smart Room**

Session III

Invited Talk - 5

Speaker : **Mr. Mark Stephen Harris**
Oorsprong Science
Roswell, GA, USA

Specialization : **Astronomy**
Time : 02:00 pm - 02:50 pm **Venue : B1 Seminar Hall**

Day 2

Date: 11.01.2024

Session IV

Invited Talk - 6

Speaker : **Dr. Wanwisa Limphirat**
Scientist, Synchrotron Light Research Institute
(Public Organization) - SLRI, Thailand.

Specialization : **Materials Characterization**
Time : 09:30 am - 10:20 am **Venue : B1 Seminar Hall**

Invited Talk - 7

Speaker : **Dr. G. Murugadoss**
Scientist, Centre for Nanoscience and
Nanotechnology, Sathyabama IST, India.

Specialization : **Energy Storage Devices**
Time : 09:30 am - 10:20 am **Venue : PG Physics Smart Room**

Session V

Invited Talk - 8

Speaker : **Dr. Durai Govindarajan**
Researcher, Dept. of Chemical Engineering
Chulalongkorn University, Thailand.

Specialization : **Design and development of functional materials**
Time : 10:20 am - 11:10 am **Venue : B1 Seminar Hall**

Invited Talk - 9

Speaker : **Dr. Prasit Pattananuwat**
Assistant Professor, Dept. of Material Science
Chulalongkorn University, Thailand

Specialization : **Supercapacitors**
Time : 10:20 am - 11:10 am **Venue : PG Physics Smart Room**

Session VI

Invited Talk - 10

Speaker : **Dr. Wathanyu Kao-ian**
Researcher, Dept. of Chemical Engineering
Chulalongkorn University, Thailand.

Specialization : **Zinc-based Batteries**
Time : 02:00 pm - 02:50 pm **Venue : PG Physics Smart Room**

Valedictory Address : **Dr. R. Ramaraj**

Professor of Eminence
School of Chemistry
Madurai Kamaraj University
Madurai, Tamil Nadu, India.

Specialization : **Photoelectrocatalysis & Nanomaterials**