

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

Ramapuram Campus, Chennai, Tamil Nadu, India.

Faculty of Engineering & Technology Department of Physics

Organizes

TWO WEEK INTERNATIONAL FACULTY DEVELOPMENT PROGRAM ON ADVANCED COMPUTATIONAL AND EXPERIMENTAL RESEARCH IN PHYSICS-2021

13.09.21 - 25.09.21

Tune to Hear Lectures from Eminent Speakers across the World

13-09-2021 @ 10:00 AM - 11:00 AM IST

Chief Guest & Keynote address

Plasma processing as a novel tool for high-performance electrode material synthesis for energy storage and conversion devices

Dr. Rajdeep Singh Rawat

Professor & Head
Department of Natural Sciences &
Science Education,
Nanyang Technological University,
Singapore.



Topics to be covered

- Materials Science Metamaterials | Nanomaterials | Functional Materials | Thermoelectric Materials
- Spectrocopy Artificial Intelligence assisted Infrared Spectromicroscopy
- Nonlinear Dynamics Coupled Optical Resonators
- Laser Technology Ultrafast Optics | Laser-silicon Interaction
- Density Functional Theory | Forensic Science
- Energy Li ion Batteries for Electric Vehicle
- Teaching Pedagogy Research and Technology | Virtual Laboratory
- Yoga Just Breathe to attain Inner Serenity: Yoga is a Tool



Who can attend? Faculty | Research Associates

No Registration Fees

Registration link: https://tinyurl.com/srmphyfdp21

Website: https://sites.google.com/view/srmphyfdp21/home

e-certificate will be provided to the participants who attend all the sessions

Convenor Coordinators

Dr. L. Sudha Dr. K. Subramanian, Assistant Professor (Sr.G)

Professor & Head Dr. T. Beena, Assistant Professor (S.G)

Dr. V. Jayalakshmi, Assistant Professor (Sr.G)

Contact: +91 96772 65859 | 94452 98246 | 97907 38299











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DAY - 2 (14.09.2021)

Dr. S. Sudhakar

Principal Scientist, Electrochemical Power Sources Division, CSIR-Central Electrochemical Research Institute. Karaikudi India

Topic: Lithium ion battery for EV application

Time: 6:30PM - 7:30PM IST



DAY - 3 (15.09.2021)

Dr. P. H. Zwart

Staff Scientist

Molecular Biophysics and Integrated Bio imaging & Advanced Mathematics for Energy Research Applications, Lawrence Berkeley National Laboratories, Berkeley, USA.

Topic: Al-assisted High-throughput Infrared Spectromicroscopy Time: 10:00 AM - 11:00 AM IST



DAY - 3 (15.09.2021) Dr. Alessandro Alberucci

Post-doc Researcher Friedrich-Schiller-Universitat Jena, Germany.

Topic: Frontiers in Ultrafast Optics Time: 2:00 PM - 3:00 PMIST



DAY - 4 (16.09.2021)

Dr. Maxime Chambonneau

Post-doc Researcher Friedrich-Schiller-Universitat Jena,

Topic: In-volume Laser-silicon Interaction Time: 2:00 PM - 3:00 PM IST



DAY - 5 (17.09.2021)

Dr. Neil Broderick

Professor, Department of Physics, The University of Auckland, New Zealand. Topic: Nonlinear Dynamics in Coupled

Optical Resonators Time: 11:00 AM - 12:00 PM IST



DAY - 6 (18.09.2021)

Dr. Ashish Badive

Head of the Department & Assistant Professor Department of Forensic Science, Government Institute of Forensic Science. Nagpur, Maharastra, India.

Topic: "Ques.: We can all see, but can you observe?

Ans.: - Forensic Science"

Time: 6:00 PM - 7:00 PM IST



DAY - 7 (19.09.2021)

Dr. B. Archana

Assistant Professor. Department of General Pathology, Sri Ramachandra Institute of Higher Education & Research, Chennai, India.

Topic: Just Breathe to attain Inner Serenity: Yoga is a Tool Time: 11:00 AM - 12:00 PM IST



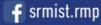
DAY - 8 (20.09.2021)

Dr. M.S. Mani Rajan

Assistant Professor, Department of Physics,

University College of Engineering, Anna University, Ramanathapuram, India.

Topic: Photonic Crystal Fiber for **Bio-Sensing Applications** Time: 2:00 PM - 3:00 PM IST







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DAY - 8 (20.09.2021)

Dr. Pawel Hawrylak

Professor,

Department of Physics, University of Ottawa, Canada.

Topic: Designing Materials at the Nanoscale

Time: 7:00 PM - 8:00 PM IST



DAY - 9 (21.09.2021)

Dr. David J. Singh

Professor

Department of Physics and Astronomy, University of Missouri, Columbia, USA.

Topic: Understanding Thermoelectric and

their Performance Time: 6:30 PM - 7:30 PM IST



DAY - 10 (22.09.2021)

Dr. Dhayananatha Prabu Jaihindh

Postdoctoral Fellow

Department of Chemical Engineering, National Taiwan University, Taiwan.

Topic: Deep Eutectic Solvents (DESs) in **Functional Materials Development**

Time: 2:00 PM - 3:00 PM IST



DAY -10 (22.09.2021)

Dr. Prafulla Kumar Jha

Professor.

Department of Physics,

The Maharaja Savajirao University of Baroda,

Vadodara, Gujarat, India.

Topic: Fundamentals of Density Functional theory

Time: 6:30 PM - 7:30 PM IST



DAY - 11 (23.09.2021)

Dr. K. Subramanian

Assistant Professor (Sr.G) Department of Physics,

SRM Institute of Science and Technology,

Topic: Significance of Virtual Laboratory:

An Overview Time: 2:00 PM - 3:00 PM IST

Ramapuram Campus, Chennai, Tamilnadu, India.



DAY - 12 (24.09.2021)

Dr. K. V. Sreekanth

Research Scientist

Institute of Materials Research and Engineering (IMRE), A*STAR, Singapore.

Topic: Electrically Tunable Nanophotonics **Enabled by Chalcogenide Phase**

Change Materials

Time: 11:00 AM - 12:00 PM IST



DAY - 13 (25.09.2021)

Dr. C. M. Raghavan

Marie S. Curie Research Fellow, Aston Institute of Photonic Technologies, Aston University, Birmingham, United Kingdom.

Topic: 2D Materials for Optoelectronic

Applications

Time: 11:00 AM - 12:00 PM IST



DAY - 13 (25.09.2021)

Dr. Ervina Efzan Binti Mhd Noor

Director, Industrial Collaborations And Engagement Centre/Associate Professor. Faculty of Engineering and Technology, Multimedia University, Malaysia.

Topic: Solder: Recent Research and Technology

Time: 12:00 PM - 1:00 PM IST



