

Connectivity

Kolhapur possesses historical as well as mythological importance. It is known as Dakshin Kashi on account of its deity Mahalaxmai and it is famous for being a center of art, education, sports, leather goods, film and sugarcane industries. There are several attractive tourist places Panhala fort, ancient temple and wild life Sanctuaries. It is well connected by train, road, & air. The city has pleasant climate in the month of January. The most popular tourist spot, Calangute Beach, Goa, is just about 150 km from Kolhapur.

About the Meeting Cum One Day Symposium:

The ISRAPS Meeting-Cum-One Day Symposium on "EMERGING ROLE OF RADIATION IN NANOTECHNOLOGY: FUNDAMENTAL TO TRANSLATIONAL RESEARCH" provides an important and common platform for researchers as well as students to know and discuss the current trends, recent developments and future perspectives in the thrust research areas of Nanoscience, Nanotechnology, Radiation and Photochemical Sciences. The main topics are designed to include a wide range of subjects involving both fundamental aspects as well as applications of Radiation & Photochemistry. The symposium will constitute invited talks and presentations of contributory papers as posters.

Scientific Scope:

- Theoretical and practical aspects of radiation & photochemistry of advanced materials
- Environmental Science
- Radiation & photochemistry in nuclear industry, healthcare and biology/ life sciences
- Nanomaterials for photochemical transformations

Organizing Committee

Patron: D. T. Shirke, Vice Chancellor, Shivaji University, Kolhapur
Co-Patron: P. S. Patil, Pro-Vice Chancellor, and V.N. Shinde, Ag. Registrar, Shivaji University, Kolhapur.
Local Advisors: S.H. Thakar, G. D. Yadav, P. P. Wadgaonkar, K. Y. Rajpure, R. G. Sonkawade, L. D. Jadhav, K.D. Sonawane, P.D. Patil, Y.S. Ramappa, A.A. Deshmukh, V.D. Jadhav S.B. Mahadik, V.A. Bapat, P.D. Raut.
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Convener (BARC): B. G. Singh
Co-Convener (BARC): A. Guleria
ISRAPS

About Shivaji University, Kolhapur

Shivaji University, established in 1962, is named after the Great Maratha Warrior and founder of the Maratha empire Chhatrapati Shivaji. It was inaugurated on 18th November, 1962 by Dr. Radhakrishnan, the then President of India. The jurisdiction of the University is spread over three districts viz. Kolhapur, Sangli and Satara with strength of about 2,00,000 students studying in 225 affiliated colleges and recognized institutes. Under the innovative and socially reformist leadership of Chhatrapati Shahu Maharaj, the princely ruler of Kolhapur, the city has become a focal point of educational opportunities for all classes and communities of South-Western Maharashtra, and northern parts of neighboring Karnataka.

About the School:

The School of Nanoscience and Technology is established on the eve of Golden jubilee of Shivaji University in 2012. The school has stimulating integrated BSc-MSc 5 years programme. The research programs offered are M.Phil. and Ph.D. The school is recognized by pharmaceutical industries as a producer of the scientific man power. The alumni of the school are holding the higher positions in National Laboratories, Institutions and Universities of our country as well as abroad. The school is supported by Government of Maharashtra, Department of Science and Technology (DST), University Grant Commission (UGC). The research work carried in the school is of international status. The school has its faculty highly qualified competent members whose work has been internationally recognized. The total number of major research projects completed by the faculty in last five years is 10. The thrust areas of the school are the development of new Synthetic Methodologies, Green Chemistry, Material Science, Photochemistry, Catalysis, Nanomaterial, Nanosensing, Nanoelectronics, Nanobiotechnology as well as nanocharacterizations.

*Registration Fees:

Scientists & Faculty Members : ₹ 700

Ph.D. Students : ₹ 500

UG Students: ₹ 100, PG Students: ₹ 200

Participation from Industries : ₹ 1000

The registration fee includes expenses towards registration kit, symposium proceedings, tea served during the scientific sessions as well as the lunches during the symposium.

Registration link: <https://forms.gle/PM5KV3DNeQU3C9zk8>

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ISRAPS Discussion Meeting-Cum-One Day Symposium on "EMERGING ROLE OF RADIATION IN NANOTECHNOLOGY: FUNDAMENTAL TO TRANSLATIONAL RESEARCH"



OCTOBER 15th, 2022

Jointly organized by

Indian Society for Radiation and Photochemical Sciences (ISRAPS)

and

**School of Nanoscience and Technology,
Shivaji University, Kolhapur**



Venue

**Shahu Senate Hall,
Shivaji University, Kolhapur (India)**



INDIAN SOCIETY FOR RADIATION AND PHOTOCHEMICAL SCIENCES

(Reg. No. 617/1985, GBBSD, Bombay Trust No. F-10965)
c/o Radiation & Photochemistry Division
Bhabha Atomic Research Centre, Mumbai - 400 085

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Web Master

Dr. Abhishek Das

ISRAPs Discussion Meeting-Cum-One Day Symposium on "Emerging role of radiation in nanotechnology: fundamental to translational research"

Venue: Shahu Senate Hall, Shivaji University, Kolhapur (India)

Date: 15th October, Saturday, 2022

Program

Inauguration & About ISRAPs activities	9.30-10.00
Session Chair: Prof. A. C. Bhasikuttan	
Talk-1: Dr. Beena G. Singh, Scientist, BARC, Mumbai	10.00-10.35
Title: <i>Synthesis and characterization of nanomaterials: A general talk</i>	
Talk-2: Dr. Chinnakonda S. Gopinath, Scientist, NCL, Pune	10.35-11.10
Title: <i>Key issues in solar water splitting and possible approaches to tackle them</i>	
Tea Break: 11.10-11.25	
Talk-3: Dr. V. Sudarsan, Scientist, BARC, Mumbai	11.25-12.00
Title: <i>Materials for sustainable lighting applications</i>	
Session Chair: Prof. K. D. Sonawane	
Talk-4: Dr. Avinash S. Kumbhar, Professor, SPPU, Pune	12.00-12.35
Title: <i>Chemical and Photoactivated Water Splitting by Metal-Polypyridyl Complexes</i>	
Talk-5: Dr. Sreejith K., Scientist, BARC, Mumbai	12.35-13.10
Title: <i>Hot carrier cooling dynamics in lead halide perovskite nanocrystals</i>	
Lunch: 13.10-14.00	
Talk-6: Dr. Abhinav Dubey, Scientist, BARC, Mumbai	14.00-14.35
Title: <i>Radiation processing of conducting polymer composites for sensing applications</i>	
Session Chair: Prof. K.Y. Rajpure	
Talk-7: Dr. Apurav Guleria, Scientist, BARC, Mumbai	14.35-15.10
Title: <i>Ionizing radiation for synthesizing nanomaterials with unique features</i>	
Posters + Tea: 15.10-16.10	
(Judges: Dr. V. K. Tripathy, BARC and Dr. P. P. Wadgaonkar, SNST, SUK)	
Talk-8: Dr. S. D. Dhole, Professor, SPPU, Pune	16.10-16.45
Title: <i>Development of nuclear batteries using radioactive sources for low power energy applications</i>	
Talk-9: Dr. H. M. Yadav, Ramanujan Fellow, SNST, SUK	16.45-17.20
Title: <i>Multifunctional TiO₂ nanostructures for photochemical transformation applications</i>	
Concluding Session	17.20-17.45

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Report On One Day Discussion Meeting Organized At School of Nanoscience and Technology, Shivaji University, Kolhapur on 15th October 2022.



ISRAPS, in collaboration with the School of Nanoscience and Technology, Shivaji University, Kolhapur (SUK), organized an ISRAPS Discussion Meeting-cum-One-Day Symposium on “Emerging Role of Radiation in Nanotechnology: From Fundamental to Translational Research” on 15 October 2022. The meeting was conducted in a hybrid mode, enabling ISRAPS members who could not travel to Kolhapur to attend online. Dr. Beena G. Singh and Dr. Apurav Guleria from ISRAPS, along with Dr. K. D. Pawar and Prof. K. K. Sharma from SUK, coordinated the event. The symposium focused on the role of radiation in the development of nanotechnology, ranging from fundamental processes involved in nanoparticle formation to practical applications in energy, catalysis, and medicine. A total of nine lectures were delivered: five by speakers from BARC, two from SPPU, one from NCL Pune, and one from SUK. A total of 200 participants attended the event. Among them, 25 faculty members, 30 research scholars, 67 postgraduate students, and 37 undergraduate students were present physically, while 10 scientists and faculty members participated online. Registered students were given an opportunity to present their research through poster presentations, and 26 abstracts were received. All posters were evaluated for the Best Poster Award sponsored by ISRAPS.

The inauguration session was chaired by the Pro-Vice Chancellor, Prof. P. S. Patil, as the Chief Guest. Dr. A. Kumbhar, Vice President of ISRAPS, introduced the society and highlighted its activities. The scientific sessions included talks on the synthesis of nanoparticles using radiation, the role of radiation in the development of polymer composite sensors, nuclear batteries, hydrogen generation from water, and their applications. The insights shared by the speakers benefited students, young researchers, and experts from prominent research groups across the country. The event featured 26 poster presentations showcasing research conducted by postgraduate students and research scholars. A cash prize of Rs. 1000/- along with a certificate was awarded for the best poster presentation. Overall, the symposium was highly successful owing to the enthusiastic participation of students from SUK. During the event, Dr. Hemraj Yadav from the School of Nanoscience and Biotechnology, SUK, became a life member of ISRAPS.