

Role of Radiation and Photochemistry in Healthcare, Energy and Environment

Jointly Organized by

Indian Society for Radiation and Photochemical Sciences (ISRAPS)

and

Department of Chemistry, SRM University Delhi-NCR, Sonapat, Haryana

 **APRIL 2026**

FRIDAY, 24

TIME: 10:00 AM



SRI SARVESWARAR AUDITORIUM
SRM UNIVERSITY DELHI-NCR, SONEPAT

AIM OF THE SYMPOSIUM

The aim of the present ISRAPS Discussion Meeting cum Symposium is to sensitize students and young researchers towards the field of radiation and photochemical sciences. The talks will highlight the role of radiation and photochemistry in different fields such as energy, environment, materials and healthcare.

THEME OF THE SYMPOSIUM

- Radiation-matter interactions and photochemical processes in biotic and abiotic system
- Ionizing radiation in synthesis of functional material
- Solar energy conversion, photocatalysis, hydrogen production, and radiation-driven technologies
- Pollution control, waste treatment, and green chemistry approaches by radiation and photochemical processes

HIGHLIGHTS FOR STUDENTS

There would be lecture by eminent speakers focusing on the aforementioned research themes. Students will get the opportunity to present their research through oral presentations. All the oral presentations will be evaluated for selecting the best presentation awards sponsored by ISRAPS. Moreover, the registered participants will get participation certificates.



REGISTRATION & ABSTRACT SUBMISSION

Participants are required to register online through following link : <https://forms.gle/wDyjStVHsaWTev527>.

Registration Fee: Rs. 250/-

ABSTRACT FORMAT

WORD file with Title (<150 characters), Author names with Affiliations, Abstract (<1500 characters and a figure).

Abstract can be sent to avinash.s@srmuniversity.ac.in

IMPORTANT DATES

Registration Start	25 th March 2026
Abstract Submission	25 th March 2026
Last Date of Abstract Submission	20 th April 2026

ORGANIZING COMMITTEE

- ISRAPS Executive Council, RPCD, BARC Mumbai
- Department of Chemistry, SRM University Delhi-NCR, Sonapat

Convener (ISRAPS):

Dr. V.S. Tripathi

Radiation & Photochemistry Division,
BARC, Mumbai
Email: vst_apcd@barc.gov.in

Convener (Local):

Dr. Avinash Singh

Deptt. of Chemistry
SRM University Delhi-NCR, Sonapat
Email: avinash.s@srmuniversity.ac.in

CHIEF PATRONS

Dr. T. R. Paarivendhar

Hon'ble Founder Chancellor
SRM Institute of Science & Technology, Chennai

Dr. Ravi Pachamuthu

Hon'ble Chancellor
SRM University Delhi - NCR, Sonapat

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SRM University Delhi - NCR, Sonapat

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Registrar,
SRM University Delhi - NCR, Sonapat

MENTORS

Prof. (Dr.) Sunny Jose

Dean, Faculty of Science and Humanities,
SRM University Delhi - NCR, Sonapat

Mr. Manoj Madhavam Kutty

Director Administration, IR & Outreach,
SRM University Delhi - NCR, Sonapat

LOCAL ORGANIZING COMMITTEE

- **Prof. (Dr.) Ajit Kumar, Chairman**
- Dr. Avinash Singh, Convener
- Dr. Deepak Mishra, Treasurer
- Dr. Prashant Kumar, Co-Convener
- Dr. Naresh Kumar, Co-Convener

MEMBERS

- Dr. Ritika Nagpal
- Ms. Pratibha
- Ms. Anjali
- Ms. Ayushi Goel
- Ms. Jyoti
- Ms. Manju
- Ms. Pooja
- Ms. Deepika

OUR EMINENT SPEAKERS



Dr. Santosh K. Sandur
BARC



Dr. V.S. Tripathi
BARC



Dr. Fouran Singh
IUC



Dr. Soumik Siddhanta
IIT-Delhi



Dr. Neelanjali Mishra
BARC



Dr. Tushar Debnath
Shiv Nadar University



Dr. Deepak Asthana
Ashoka University



Mr. Subhamoy Saha
BARC

One Day Discussion Meeting cum Symposium on

"ROLE OF RADIATION AND PHOTOCHEMISTRY IN HEALTHCARE, ENERGY AND ENVIRONMENT"

(in association with Dept. Of Chemistry, SRM University Delhi-NCR, Sonepat)

Venue: Sarveshwarar Auditorium, SRM University Delhi-NCR

Date: 24th April, 2026

Technical Schedule

Inauguration Function	10:00-10.30
<i>Welcome address by Dean Science & Humanities</i>	
<i>Remarks by Registrar & Dean Research</i>	
<i>Remarks by Vice Chancellor</i>	
<i>Information about ISRAPS by President, ISRAPS</i>	
Session Chair: Dr. A. C. Bhasikuttan, BARC	
Talk-1 Dr. S. K. Sandur, BARC	10.30-11.00
Title: Application of Radiation Chemistry and Radiation Biology in Cancer Therapy	
Talk-2: Dr. V. S. Tripathi, BARC	11.00-11.30
Title: Managing radiation environment: Fundamental aspect of interaction of radiation with matter	
Tea Break: 11.30-11.45	
Session Chair: Dr. S. K. Sandur, BARC	
Talk-3: Dr. Fouran Singh, IUAC	11.45-12.15
Title: Role of ion beams for a sustainable future	
Talk-4: Dr. Neelanjali Mishra, BARC	12.15-12.45
Title: WASTE"-Water Air and Soil Treatment using energetic radiation: harnessing sustainable technologies for environmental pollution remediation	
Talk-5: Dr. Soumik Sidhanta, IIT Delhi	12.45-13.15
Title: Plasmonic hybrids for surface-enhanced Raman spectroscopy	
Lunch: 13.15-14.00	
Session Chair: Dr. Fouran Singh	
Oral Presentations: 14.00-14.40	
Talk-6: Mr. Subhamoy Saha, BARC	14.40-15.10
Title: Enhanced Processing of Semi-Volatile Polyols in Atmospheric Aerosols via Nitrate Photochemistry	
Talk-7: Dr. Tushar Debnath, Shiv Nadar University	15.10-15.40
Title: Exciton, Biexciton and Trions in Halide Perovskite Nanocrystals	
Talk-8: Dr. Deepak Asthana, Asst. Prof, Ashoka University	15.40-16.10
Title: Molecular Engineering of Fluorescent Systems for Solid state Fluorescence and Circularly Polarized Luminescence	
Tea Break: 16.10-16.30	
Concluding Session	16.30-17.00