ISRAPS

SRM UNIVERSITY DELHI-NCR, SONEPAT

One Day Discussion Meeting cum Symposium on

Role of Radiation and Photochemistry in Healthcare, Energy and Environment

Jointly Organized by

Indian Society for Radiation and Photochemical Sciences (ISRAPS)

and

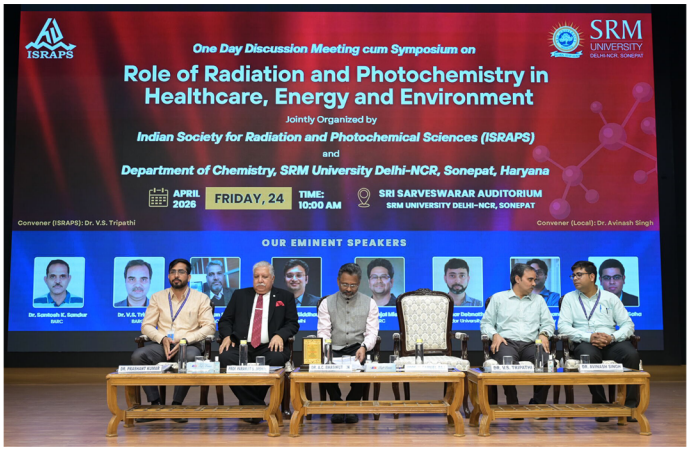
Department of Chemistry, SRM University Delhi-NCR, Sonepat, Haryana

APRIL 2026 | **FRIDAY, 24** | **TIME: 10:00 AM**

SRI SARVESWARAR AUDITORIUM
SRM UNIVERSITY DELHI-NCR, SONEPAT

Report on the One Day Discussion Meeting

The meeting featured eight invited talks and oral presentations covering a broad range of topics, including radiation biology, interaction of radiation with matter, ion-beam applications, atmospheric aerosol chemistry, fluorescent materials, halide perovskite nanocrystals, and plasmonic hybrids for surface-enhanced Raman spectroscopy. The programme brought together experts and researchers from diverse institutions, fostering interdisciplinary discussions on radiation science, photochemistry, and emerging materials and sustainable technologies.





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

ORGANIZING COMMITTEE

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

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, Sonepat
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, Sonepat

PATRONS

Prof. (Dr.) Paramjit Singh Jaswal
Hon'ble Vice Chancellor
SRM University Delhi – NCR, Sonepat

Prof. (Dr.) V. Samuel Raj
Registrar,
SRM University Delhi – NCR, Sonepat

MENTORS

Prof. (Dr.) Sunny Jose
Dean, Faculty of Science and Humanities,
SRM University Delhi – NCR, Sonepat

Mr. Manoj Madhavam Kutty
Director Administration, IR & Outreach,
SRM University Delhi – NCR, Sonepat

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. Ayushi Goel
- Ms. Pooja
- Ms. Pratibha
- Ms. Jyoti
- Ms. Deepika
- Ms. Anjali
- Ms. Manju

OUR EMINENT SPEAKERS


Dr. Santosh K. Sandur
BARC


Dr. V.S. Tripathi
BARC


Dr. Fouran Singh
IUAC


Dr. Soumik Siddhanta
IIT-Delhi


Dr. Neelanjal 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

Welcome address by Dean Science & Humanities
Remarks by Registrar & Dean Research
Remarks by Vice Chancellor
Information about ISRAPS by President, ISRAPS

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. Neelanjal 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