


Registration Fee (In INR)				
Dead line for Early Registration	Participants from	General	Non stipendiary students	Late / Spot Registration (All Categories including Accompanying Person)
	SAARC Countries/INDIA	Rs. 3000	Rs. 2000	Rs. 3500
5 <sup>th</sup> November 2024	Other Countries	\$ 100	\$75	\$150
<ul style="list-style-type: none"><li>For each accompanying person extra Rs. 2000 (SAARC countries) / \$100 (other Countries)</li><li>For M.Sc. Students Registration Fees is Rs. 500/-only. (Only Participation)</li><li>A rebate of 10% in registration fee for Life members of IAPS.</li><li>Registration fee can be paid online.</li><li>Account Details for Registration Fee submission are as follows: Account Name: Organizing Secretary CONIAPS 2024, Account Number: 4322935958-5 Bank: STATE BANK OF INDIA Ravishankar Shukla University Branch, IFSC Code: SBIN0003739, MICR Code: 49200210</li><li>Free Accomodation (Hostel), Conference Kit will be provided to all delegates who will register before 5th November, 2024</li></ul>				

**Correspondence: Organizing Secretary (CONIAPS XXXI)**  
**Prof. Kamlesh Shrivas, Email-[coniaps2024@gmail.com](mailto:coniaps2024@gmail.com)**  
**Dr. Manmohan Lal Satnami (SoS in Chemistry)**  
**Dr. Y.K. Mahipal (SoS in Physics & Astrophysics)**

CONIAPS XXXI Invited Speakers	
International Speaker	National Speaker
<b>Physics</b>	
Prof. Ravindra Pandey, Michigan Tech University, Michigan, USA Prof. B. V. R. Chowdari, NTU, Singapore Dr. R. P Rao, Speciality Phosphors, USA Prof. K. V. R. Chary, Rowen University, USA Prof. Hari Upadhyaya, London South Bank University, UK	Prof. K.V. R. Murthy, M.S. University, Badodara Prof. Giri Babu, CSIR-IICT Hyderabad Dr. Dipanker Banerjee, ARIES, Nainital Prof. B. N. Jagtap, IIT, Mumbai Prof. Manoj Mahapatra, BARC Dr. B.S. Panigrahi, IGCAR, Kalpakkam Prof. S.J. Dhoble, RTM University, Nagpur Prof. S.A. Hashmi, University of Delhi, New Delhi Prof. Shivkumar Vidhyanathan, IIT Hyderabad Prof. C. Shivakumara, IISc, Bangalore Dr. O. P. Thakur, SSPL DRDO, New Delhi Prof. Ranveer Kumar, Dr. H. S. Gour University, Sagar, MP Prof. D. Harnath, NIT Warangal Prof. Manoranjan Kar, IIT Patana Prof. Devraj Singh, Purvanchal University Jaunpur Prof. Sudhir Nema, Indian Plasma Research Institute, Hydrabad Prof. G.V.V. Sharma, IIT, Hyderabad Prof. Neelam Sinha, IIIT,Bangalore Dr. G. R. Sinha, IIIT,Bangalore Prof. K. K. Biswas, IIT Delhi Prof. A.G. Ramkrishana, IISc, Bangalore
<b>Chemistry</b>	
Prof. David G. Churchil, <b>Korea</b> Advanced Institute of Science and Technology (KAIST).	Prof. Dulal C. Mukherjee, Retd. Professor, Kolkata University Prof. Nitin Chhattopadhy, Jadavpur University Prof. T. S. Pal, IIT Kharagpur Prof. Anjali Pal, IIT Kharagpur Dr. Sankar Gopal Agarwal, NPL, New Delhi Dr. Kishore Kumar Krishnani, Ranchi Dr. S.S. Bisht (Scientist E), Forest Research Institute, Dehradun Prof. Anand Aswar, SGB, Amrawati University, Amrawati Dr. Bishwarup Chakraborty, IIT Delhi Dr. Prabhat K. Singh, BARC, Mumbai Prof. Goutam Patra, Guru Ghasidas University, Bilaspur
<b>Mathematics</b>	
Prof. Dr. Mikhail Sheremet, Tamsk State University, Russia Prof. Girijesh PrasadProfessor of Intelligent Systems Ulster University (UU), United Kingdom.	Prof. D. R. Sahu, BHU Prof. Q. H. Ansari, AMU Prof. Kalyan Chakraborty, Kerla school of Mathematics Prof. S. Ponnusamy, IIT Madras Prof. R. P. Pant, Kumaun University, Nainital Prof. H.K. Pathak, Former Professor, Pt. R. S. U. Raipur
<b>Computer Science and IT</b>	
Dr. Sajal K. Das, Dept. of Computer Science, Missouri University of Science & Tech, USA. Dr. Pramod K. Pandey, Professor, University of California, USA Dr. Anurag Mairal, Professor, School of Medicine, Stanford University, California, USA Dr. Dinesh Sharma, Professor, University of Maryland, USA Dr. Ashish Rastogi, Professor, University of Technology and Applied Sciences, Mausat, Oman Dr. Muralindran Mariappan Faculty of Engineering, University Malaysia Sabah, Malaysia. Dr. Pramod Gaur, Department of computer science, Nottingham Trent University, Nottingham, United States	Dr. Sanjay Dhurandhar, Professor, Dept. of IT, NSUT, New Delhi Dr. Rakesh Ramteke School of Computer Sciences, KBC North Maharashtra University, Jalgaon, Maharashtra. Dr. S K Udgata Professor, SCIS, University of Hyderabad, Hyderabad Dr. O. P. Vyas, Professor, IIIT Allahabad

**Important Dates:**  
**Last date for Abstract Submission 31<sup>th</sup> October 2024**  
**Acceptance of Abstract 5<sup>th</sup> November 2024**  
**Last date for Registration 5<sup>th</sup> November 2024**  
**Last date for Full-length Paper Submission for YSA 15th November 2024.**  
**Conference Dates 20-21 December 2024**

Registration Form

31st International Conference of International Academy of Physical Sciences (CONIAPS XXXI)

On

Emerging Trends in Physical Sciences

20-21 December, 2024

Name-.....

Designation-.....

Qualification- .....

Institute Name-.....

Address for Correspondence:.....

.....

.....

Telephone -.....Mobile -.....

Email.....

If, IAPS member give membership ID:.....

Transaction ID of fee paid -..... Date-.....

Bank - .....Branch - .....

Amount Rs-.....

Place-.....Date -.....

Signature of Applicant

HOD/Supervisor

Signature& Seal



31<sup>st</sup> International Conference

of

International Academy of Physical Sciences (CONIAPS XXXI)

On

Emerging Trends in Physical Sciences

20-21 December, 2024

Conference Web link: <https://confseries.in/coniaps2024>



Organized by

School of Studies in Chemistry

&

School of Studies in Physics & Astrophysics

Pt. Ravishankar Shukla University, Raipur (C.G.)

Website: [www.prsu.ac.in](http://www.prsu.ac.in)

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# 31<sup>st</sup> International Conference of International Academy of Physical Sciences (CONIAPS XXXI)

20-21 December, 2024

A Conference, CONIAPS XXXI, is going to be organized by School of Studies in Physics & Astrophysics and School of Studies in Chemistry, Pt. Ravishankar Shukla University (PRSU), Raipur, Chhattisgarh, India (492010).

## Target Participants

The Conference is intended for the participation of Young Faculty members of various Universities/Institutions, Colleges, Research Students, eminent senior researchers and Post Graduate (PG) Students.

### Objectives:

The 31<sup>st</sup> International Conference of International Academy of Physical Sciences (CONIAPS XXXI) on Emerging Trends in Physical Sciences aims to provide an opportunity to Researchers and Professionals from Institutes, Universities, Colleges and Industries across the world to share their recent researches and views in different fields of Physical Sciences and their Applications for the ultimate benefit of the Society. The conference will embrace Keynote Address, Fellowship Award Lectures, Swami Bhajanand Saraswati Vedic Science Award Lecture and other Plenary Lectures, Invited Lectures, Young Scientist Award (YSA) presentations and Paper Presentations (oral and poster). CONIAPS XXXI will include a broad set of research areas related to Physics, Chemistry, Mathematics, Electronics and Applied Physics, Material Sciences, Computer Sciences and Informatics, Bio-Informatics, Bio-Physics, Bio-Chemistry, Bio-Technology and Earth Sciences.

### About IAPS :

International Academy of Physical Sciences was founded with its headquarters at Allahabad on December 4, 1994, to meet the above goals and objectives. This culminated into a foundation conference in which several scientists from different streams deliberated on interdisciplinary approaches towards conflict resolution for world problems. The Academy is conceived as a scientific body incorporating various branches of Physical, Mathematical, and Earth Sciences such as Physics, Chemistry, Mathematics, Statistics, Geology, Geophysics and Geography, Computer Science, Bio-Informatics, Biochemistry, Biophysics, etc. The IAPS is a scientific organization of recent origin but it has already made its mark by involving in it through membership, fellowship, and activities, a large number of scientists of India and abroad, and its publications are helping in the expansion of scientific knowledge.

### Theme of the Conference:-

Physics	Chemistry	Mathematics	Computer Science	Biosciences/ Pharmaceuticals and Applied Sciences
<ul style="list-style-type: none"><li>• Luminescence</li><li>• Solid State Ionics</li><li>• Material Science</li><li>• Electronics, Photonics, Renewable Energy Materials</li><li>• Astronomy and Astrophysics</li><li>• Computational Physics</li><li>• Any other Relevant Areas</li></ul>	<ul style="list-style-type: none"><li>• Nanomaterials</li><li>• Environmental, Atmospheric Chemistry and Climate Change</li><li>• Chemical Optical Sensors</li><li>• Surface Chemistry</li><li>• Battery, Super capacitor, Fuel Cells</li><li>• Any other Relevant Areas</li></ul>	<ul style="list-style-type: none"><li>• Computational fluid Mechanics</li><li>• Graph Theory, Differential Geometry</li><li>• Algebra</li><li>• Modeling and Simulation</li><li>• Industrial Mathematics</li><li>• Applications of Wavelets</li><li>• Mathematical Biology</li><li>• Operations Research</li><li>• Analysis</li><li>• Any other Relevant Areas</li></ul>	<ul style="list-style-type: none"><li>• Artificial Intelligence and Machine Learning</li><li>• Internet of Things and Cloud Computing</li><li>• Big Data Analytics and Data Science</li><li>• Emerging Trends in Networking and Security</li><li>• High Performance Computing</li><li>• Quantum Computing</li><li>• Any other Relevant Areas</li></ul>	<ul style="list-style-type: none"><li>• Bioinformatics</li><li>• Biochemistry</li><li>• Biophysics</li><li>• Geology</li><li>• Geophysics</li><li>• Chemical Biology</li><li>• Chronobiology</li></ul>

### About University

Pt. Ravishankar Shukla University is Chhattisgarh's largest and oldest institution of higher education, founded in 1964. The campus of University is spread in 207 acres. It is well connected by air, rail and road between Howrah and Mumbai, and lies on NH-6. The campus is located at about 10 kilometers from the airport and about 4 kilometers from the railway station. There are Twenty-Nine teaching departments in the University. The total number of employees is 700. There are 5000 students enrolled for variety of courses and more than 100 faculty members are work for university. There are 180 educational institutions affiliated to the University. Recently the University receives DST-PURSE Grant.

### About School of Studies in Physics and Astrophysics

The School of Studies in Physics & Astrophysics was established in the year 1972. Since its inception, the department has been imparting quality education at PG level and advanced research in frontline areas of Physics with major focus on Solid State/Condensed Matter Physics/Materials Science and Astronomy & Astrophysics (A&A), so that students of this region get academically benefited at par with any leading National/International institutions. It is worth mentioning that Pt. Ravishankar Shukla University is one amongst only few Indian Universities, and the one in the new state of Chhattisgarh, where teaching and research in Astronomy and Astrophysics (A&A) is being carried out in the Physics Department. In material Science, two groups are there:Luminescent materials research group and solid state Ionics group. The department was recognized as Center of Excellence (1987□1992) by M.P. Uchcha Shiksha Anudan Ayog, Bhopal. The department has received DST-FIST twice. The second DST FIST program has been approved to initiate two-semester specialization course on Physics of Nanomaterials for M.Sc student.

### About School of Studies in Chemistry

SoS in Chemistry is one of the oldest and most prominent departments in Pt. Ravishankar Shukla University, Raipur, founded in 1972. Under the supervision of dedicated teachers. it offers M. Sc. and Ph. D. programs. The academic achievements of the SoS are well reflected by over 800 research papers published at the world level and over 300 Ph. D. produced covering a wide spectrum of the chemical science. It is a DST-FIST and; UGC-SAP sponsored department. The major fields of research are: Environmental Chemistry: Air quality monitoring and analysis, volatile organic compounds, polycyclic aromatic hydrocarbon etc. air quality receptor modeling forource characterization of air pollution mass. Nanotechnology: nano particle synthesis and its application, Surface Chemistry, Chemical sensors, Detoxification of pesticides, Electrochemical sensors, Energy Storage Applications and Supercapacitors.

### About School of Studies in Mathematics

The School of Studies in Mathematics came into existence in 1991. The school offers a four semester (two year) post-graduation M.A./M.Sc. in Mathematics and research programme leading to Ph.D. degree. From the very inception this school is one of the most active research center of mathematical sciences in Chhattisgarh State. The broad areas of specialisation of the faculty are Nonlinear Functional Analysis, Cryptography and Mathematical Epidemiology. The school has online access of MathSciNet through the UGC Consortium. From 1994, the National Board for Higher Mathematics (NBHM) has been providing Library Grant every year to support purchase of books related to Mathematics. The school is also zonal centre for the award of NBHM, M.A./M.Sc. and Ph.D. scholarships awarded by the Department of Atomic Energy, Govt. of India. The school has been recognised by the Department of Science and technology as 'DST-FIST sponsored Department' for the period 2010-2014 to receive funds for development of infrastructure. The School has produced around 40 Ph.D. scholars. The faculty members have got published more than 400 research papers in highly reputed journals. Faculty members have also completed several research projects funded by agencies such as UGC, CCOST, DST, CSIR.

### About School of Studies in Computer Science & IT

School of Studies in Computer Science & IT was established in the year 1992 under the aegis of this University and with the support of UGC and State Government. It is working as an academic department of the University. Currently, the Department is running two years full time Master of Computer Applications (M.C.A.) and two years full time Master of Science in Information Technology (M.Sc.IT). Apart from this the department also conducts Ph.D. program. The Department is also providing research facilities and presently research scholars are working in the area of Parallel Computing, Big Data, Data Science, Internet of Things and Computer Networking. Students of this department are employed abroad as well as in reputed Central Govt., State Govt. and Private organizations like TCS, NIC, CHIPS, MIT, DRDO, Cognizant, Infosys, L&T etc.

### Hospitality:

Invited speakers will be provided accommodation (on shared basis), conference material, breakfast, lunch and dinner. Free Accomodation (Hostel), Conference Kit will be provided to all delegates who will register before 5th November, 2024.

### Hotels:

Delegates can make their own arrangements for accommodation in the following hotels of Raipur: Singhania Sarovar Portico, Gagan Residency (9109111847), Hotel Piccadily (9303900639), Club Paraiso- (9303718538).

### How to Reach Raipur

Raipur is well connected by Air/ Rail/Road Transport, and situated on the Mumbai-Nagpur-Howrah route of the Indian Railways. It has connection of Air with direct flight from New Delhi, Mumbai, Kolkata, Bhubaneswar, Bhopal, Indore Hyderabad, Bangalore and Nagpur.

### How to reach at Pt. Ravishankar Shukla University, Raipur?

The area where university is situated is called 'AAMA-NAKA'.

### From Raipur Railway Station

Railway station is approx 05 kms away from the University.

Prepaid Autos available at Railway Station with the fare around Rs 150/-.

Raipur City Buses are also regularly plying from Railway Station to Aama-Naka, Pt. Ravishankar Shukla

University.

### From Raipur Airport

Raipur Airport is situated at Mana, south of Raipur City, 18 kms from the University. Private taxi service is available from the airport. The fare is~ Rs. 600/- from the airport to University campus. Raipur City Buses are also available from outside the Airport. Bus Route will be from Airport to Ghadi-chowk and then from Ghadi-chowk to University/Aamanaka. The fare is about Rs. 20 per head.

### Conference Organizing Committees

<b>Patron</b>	<b>: Prof. Sachchidanand Shukla, Vice-Chancellor, Pt. R avishankar Shukla University , Raipur</b>
<b>Conveners’</b>	<b>: Prof. Kallol K Ghosh (Chemistry) Prof. Nameeta Brahme (Physics) Prof. B.S. Thakur (Mathematics) Prof. Sanjay Kumar (Computer Science)</b>
<b>Co -Convener’s</b>	<b>: Prof. Manas Kanti Deb, Prof. D.P. Bisen, Prof. Kavita Thakur</b>
<b>Organizing Secretaries</b>	<b>: Prof. Kamlesh Shrivass, Dr. M anmohan Lal Satnami Dr. Y.K. Mahipal</b>
<b>Joint -Secretary &amp; Treasurer</b>	<b>: Dr. Bhanushree Gupta, Dr. Indrapal Karbhal Dr. Govind Sahu, Mr. Chitrkant Belodhiya,</b>
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### Executive Council of IAPS

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**PRESIDENT:** Prof. H. S. Dhami, Vice- Chancellor, Surajmal University, Kichchha, Uttarakhand.

**VICE PRESIDENTS:** Prof. S. N. Upadhyay, Former Director, IT (presently IIT), BHU, Varanasi, U.P. Prof. A. K. Mishra, ISc, Chennai, Tamilnadu. Prof. T. Kumar, Vice-Chancellor, Central University of Haryana, Haryana. Prof. Ram Mohapatra, Central University of Florida, Orlando, USA.

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**SECRETARIES:** Prof. Aparajita Ojha, Former Director, IIIT, Jabalpur, M. P., Prof. A.K. Vashishth, Head, Department of Mathematics, Kurukshetra, University, Kurukshetra, Haryana., Prof. M. K. Sharma, Department of Mathematics, C.C.S. University,Meerut, U. P., Prof. V. Lokesha, Dean, Faculty of Science, VSK University, Ballari, Karnataka,

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### Submission of Paper:

Abstract of research papers intended for presentation be uploaded on the conference web-link

**https://confseries.in/coniaps2024** as the MS word file latest by Date **31 October 2024**

Template for abstract compilation is available on the conference web-link. The abstract restricted to maximum

300 words, must contain the title of the paper, name of each author with affiliation and email address.

The name of the presenting author must be underlined. Papers presented in the Conference will be published in the Journal of IAPS after review.

## AWARDS

- Prof. O.N. Srivastava Memorial Lecture Award
- Prof. T. Pati Memorial Lecture Award
- Prof.R.S. Mishra Memorial Lecture Award
- Prof. H.P. Dikshit Memorial Award
- Prof. P.R. Sharma Memorial Award
- Prof. P.N. Pandey Research Award

**Young Scientist Award (YSA):** In various fields of Physical Sciences the YSA is given to the presenters in CONIAPS after screening process of their full-length paper and presentation before the panel of five experts.

**Eligibility for Young Scientist Award (YSA):** The registered research scholar competing for the YSA must not crossed the age of 35 years on December 21, 2024, evidenced from the Board Examination Certificate. Contestants for YSA have to submit Full- Text paper along with the age proof and proof of paid registration fee. Papers for YSA should not be authored by more than two scholars/ scientist. Full-length Paper for the YSA must reach to the convener through the registration link latest by November 15, 2024.