Tentative Program Schedule

31st International Conference

of

International Academy of Physical Sciences (CONIAPS XXXI)

(December 20-21, 2024)

1st day, 20 December (Friday)

8:00 AM -10:30 AM	Registration
10:30 AM -12:00 PM	Inauguration
12:00 PM -12:30 PM	HIGH- TEA

SESSION-I DECEMBER 20, 2024 (12:30 PM – 1:30 PM)

KEY NOTE ADDRESS		
12:30 PM - 01:30 PM Prof. Tankeswar Kumar, Central University Of Haryana		
1:30 PM - 2:30 PM	LUNCH	

Session-II

YOUNG SCIENTIST AWARD PRESENTATIONS (Chemistry/Computer Science/BPA)

(02:30 PM – 04:00 PM)

VENUE: M. Sc. Final Chemistry Chairman: Prof. Kamlesh Shrivas

	CHYSA-01	Nikita Raghuvanshi (PRSU, Raipur)
2:30 PM – 4:00 PM		Encapsulation of Cumin Seed Essential Oil in Silica-
		Nanocontainer for Improved Antioxidant Activity
	CHYSA-02	Anurag Mishra (NIT, Raipur)
		Switching Photoluminescence "On-Off-On" for
		Detection of Chromium (VI) Ion and Ascorbic Acid with
		N,S-Codoped Carbon Dots
	CHYSA-03	Pinki Miri (PRSU, Raipur)
		Nanoconfined Carboxyl Functionalized Oxo Bridged
		(F)n Mon – O – Tin Heterometallic clusters for
		Photodegradation and Removal of Organophosphorus
		Pesticides
	CHYSA-04	Ankita Beena Kujur (PRSU, Raipur)
		Triple-Mode Sensing of Hg 2+ Using FRET Pair of
		Nitrogen-Doped Carbon Quantum Dots and Gold
		Nanorods

		Computer Sciences
	CSYSA-01	Princy Matlani (GGU, Bilaspur)
		A Deep Learning and Meta-Heuristic Optimization
		Approach for Content-Based Video Retrieval
	CSYSA-02	Anita Sahu (PRSU, Raipur)
		Deepfake Video Detection Based On Deep Learning
		Models: A Review
	Biocl	hemistry, Pharmaceutical And Applied Sciences
	BPAYSA-01	Nisha Singh (PRSU, Raipur)
		Sitting Behaviour in Humans as a Function of Workdays
		and Free days
4:00 PM -4:15 PM	TEA BREAK	<u> </u>

Session-II

INVITED LECTURE (Chemistry)

(02:30 – 04:00 PM)

VENUE: Dr. CV Raman Hall Chairman: Dr. Anil Srivastava

(Dr. Dipti Pateriya: 9993489867; Ms. Priti Verma: 7587060007)

	CHIL	Prof. S. N. Upadhyay
2:30 – 4:00 PM		Curcumin-loaded Nanofibrous Dressing for Rapid and
		Scarless Wound Healing
	CHIL	Prof. Nitin Chattopadhyaya (Jadavpur University, Kolkata)
		Development of Potential Strategies from Simple Ideas
	CHIL	Tarasankar Pal (IIT- Kharagpur)
		Liquid-Liquid Interface A Platform For Porous
		Nanostructures Of Gold And Palladium
4:00 PM-4:15 PM	TEA BRE	AK

Session-III

ORAL PRESENTATIONS (Chemistry)

(4:15 PM - 6:15 PM)

VENUE: M. Sc. Final Chemistry Chairman: Dr. M. L Satnami

	CHOP-01	Dr. Pallavi Singh (BCJ Science College, Gujarat)
4:15 PM -6:15 PM		A Sustainable Approach for the Synthesis of Thioesters
	CHOP-02	Abhilash Pandey (GGU, Bilaspur)

		A Novel Pyrene Based Highly Selective Reversible Optical
		Sensor for Rapid Detection of Hg2+ Ion: Application in
		Bio-Imaging
	CHOP-03	Shiva Kant Ojha (CMP Degree College, Allahabad)
		Enhanced Performance of Dye-Sensitized Solar Cells
		Using Nitrogen-Doped Carbon Quantum Dots
	CHOP-04	Pritimala Sahu (PRSU, Raipur)
		Bovine Serum Albumin Nanoparticles as a drug Carrier for
		Antiviral drug delivery Systems
	CHOP-05	Sanju Salima Ekka (Sambalpur University)
		Soft Magnetic Nanomaterials from Mahua Oil Cake:
		Process Optimization, Characterizations, Biological
		Activity, and Application in Azo Dye Removal by
		Adsorption Method
	CHOP-06	Achyuta Kumar Biswal (Sri Sri University, Odisha)
		An eco-friendly method for chlorpyrifos pesticide removal
		from water using a new nano magnetic nanomaterial
	CHOP-07	Ujjwala Patel (PRSU, Raipur)
		Influence of Surfactant Hydrophilic-Lipophilic Balance on
		Stability of Essential Oil Loaded Nanoemulsions
	CHOP-08	Suprava Maharana (Dhenkanal Auto. College, Odisha)
		Interaction of BSA with cationic Gemini surfactants with
		varying hydrocarbon chain length in aqueous solution
	CHOP-09	Shubhra Sinha (PRSU, Raipur)
		Fabrication of Nitrogen and Sulphur Co-Doped Graphene
		with Polyaniline for High Performance Supercapacitor
	CHOP-10	Vaibhav Dixit (PRSU, Raipur)
		Development of Free-Standing BCN-Coated Carbon Cloth
		for Advanced Flexible Solid-State Supercapacitor Devices
6:30-7:30 PM	CULTURA	AL PROGRAM
		MI I NO GALANI
7:30 PM-8:30	DINNER	

Session-III (Special Session)

INVITED LECTURES/ORAL PRESENTATIONS (Chemistry)

(4:15 PM -6:15 PM)

VENUE: Dr. CV Raman Hall

DST-PURSE (Environmental Chemistry)

Chairman: Prof. Manas K. Deb

(Dr. Dipti Pateriya: 9993489867; Ms. Priti Verma: 7587060007)

4:15 PM -6:15 PM	CHIL	Prof. Shankar G. Aggarwal (CSIR- NPL-New Delhi)
		Atmospheric Gases and Particle Chemistry in Real
		Scenarios
	CHIL	Dr. Anil K Shrivastava (DRDO)

		Current Trends in Environmental Management of
		Submarines.
	CHOP-11	Richa Tembekar (PRSU, Raipur)
		Removal Study of Methylene Blue Dye by Magnetic
		Nanoparticles
	CHOP-12	Babita (PRSU, Raipur)
		FTIR Imaging Spectroscopy as a Tool for In-Depth Analysis
		of Microplastic Pollution in Environmental Matrices
	CHOP-13	Dishen Kumar (GGU, Bilaspur)
		A Highly Selective Benzildihydrazone Based Double Schiff
		Base Chromogenic Chemosensor for Rapid Detection of Ni2+
		Ion in Aqueous Solution
	CHOP-14	Khushali Tandey (PRSU, Raipur)
		Smartphone Assisted Plasmonic and Portable Paper-Based 3D
		Printed Assay for Colorimetric Detection of Cadmium in Water
		and Milk Samples
	CHOP-15	Yogyata Chawre (PRSU, Raipur)
		pH-Dependent Oxidase and Hydrolase Mimicking
		Activity of Nanoceria and Its Composite with N-CQD for
		Sensitive Detection of Dopamine, Glutathione and
		Organophosphorus Pesticide
	CHOP-16	Anshu Maurya (University of Allahabad)
		PVA-Alginate Hydrogels as Effective Adsorbents for
		Methylene Blue in Water Purification
6:30-7:30 PM	CULTURAL	PROGRAM
7:30 PM-8:30	DINNER	

2nd day, 21 December (Saturday)

Session-I

ORAL PRESENTATIONS (Chemistry/) (9:30 AM – 11:30 AM)

VENUE: M. Sc. Final Chemistry Chairman: Prof. Tarasankar Pal

	CHOP-17	Dr. Manmohan Lal Satnami (PRSU, Raipur)
9:30 AM – 11:30 AM		Size and Shape Dependent FRET Donor-Acceptor Efficacy
		of Nanostructures
	CHOP-18	Dr. Bhanushree Gupta (PRSU, Raipur)
		Role of Nanotechnology in Aiding the Application of
		Essential Oils in Food Industry
	CHOP-19	Abhishek Katendra (PRSU, Raipur)
		A FRET Pair of Nitrogen doped Carbon Quantum Dots-
		Gold- Nanoparticle for the Detection of Bipyridine
	CHOP-20	Angel Minj (PRSU, Raipur)

		Songing of Dihoflavin with Surface Modified Silver
		Sensing of Riboflavin with Surface Modified Silver
		Nanoparticle Through Resonance Energy Transfer
	CHOP-21	Rajiv Nayan (PRSU, Raipur)
		Synergistic N-Doped carbon nanotubes and B and N Co-
		Doped Carbon Fiber: A High Efficiency Supercapacitor
		Electrode
	CHOP-22	Ankita Tejwani (PRSU, Raipur)
		Nanocomposite of GO/SiO2 with PANI for
		Electrochemical Sensing of Dopamine
	CHOP-23	Uttam Sarkar (NIT, Raipur)
		Lanthanide-Complexes Doped PMMA composite for Tunable
		White Light Emission
	CHOP-24	Manoj Kumar Banjare (State Forensic Sci. Lab, Raipur)
		Micellization Behavior of Imidazolium Based Ionic Liquid
		within Choline Based Deep Eutectic Solvents
	CHOP-25	Bhuneshwari Sahu (PRSU, Raipur)
		Calixarene functionalized gold nanoparticles for the
		recognition of diazinon pesticides in agricultural sample as
		a colorimetric and paper-based sensor
	CHOP-26	Taanisha Mukhopadhyay (Haldia Inst. of Technology)
		Production of renewable liquid fuels from woody biomass
	CHOP-27	Anat Ram Sidar (NIT, Raipur)
		Topological Co(II)-malonate polymorph: Degradation
		properties of Naproxen and colorimetric recognition of
		acetone, Cr_2O^{2-} , and Fe^{3+}
	CHOP-28	Dr. Indrapal Karbhal (PRSU, Raipur)
	21101 20	Boron-Carbon-Nitride: A Breakthrough Material for
		Supercapacitor and Battery Technologies
11:30 AM-11:45 AM	TEA BREA	
11.50 AWI-11.45 AWI	TEA DREE	***

Session-I INVITED LECTURES (Chemistry)

(9:30 AM – 11:30 AM)

VENUE: Dr. CV Raman Hall

Chairman: Prof. Nitin Chhattopadhyaya (Dr. Dipti Pateriya: 9993489867; Ms. Priti Verma: 7587060007)

09:00 AM- 09:30 AM	CHIL	Prof. Puru Jena (Virginia Commonwealth University,
ONLINE		Richmond, USA)
		Superatoms as Superior Catalyst
	CHIL	Dr. Biswarup Chakraborty (IIT, Delhi)
9:30 AM – 11:30		Recognizing the Oxygen Evolution Reaction Pathway on
AM		SnFe ₂ O ₄ Electrocatalyst
	CHIL	Dr. Surendra Singh Bisht (FRI, Dehradun)
	ONLINE	

		Exploring Phytochemical Diversity of MAPs Using Cutting-Edge Analytical Tools for Bioactive Compound Profiling
	CHIL	Dr. Kishore Kumar Krishnani (ICAR, Ranchi) Occurrence and remediation of Contaminants of emerging concern with major emphasis on microplastics and nanomaterials
	CHIL	Prof. Anjali Pal (IIT- Kharagpur) Metal catalyst on admicellar support for nitrophenol reduction
	CHIL	Prof. Gautam Kumar Patra (GGU, Bilaspur) Anion Sensing: Challenges and Opportunities
	CHIL	Dr. Hemlata Shukla (Canossa Convent Girls Inter College, Cantt, Faizabad) Electron Density, Molar Volume and Dipole Moment as descriptors for QSAR Study of the Antioxidant Activity of Flavonoids
11:30 AM-11:45 PM	TEA BRI	EAK

Session-II

ORAL PRESENTATIONS

(Biochemistry, Pharmaceutical and Applied Sciences)

(11:45 AM – 1:30 PM)

VENUE: M. Sc. Final Chemistry Chairman: Prof. Arti Parganiha

	BPAOP-01	Dr. Arvind Kumar Agrawal (PRSU, Raipur)
11:45 AM- 1:30 PM		The campus of Pt. Ravishankar Shukla University has
		bagworm infestations
	BPAOP-02	Anil Kumar Sahu (University of Allahabad)
		Heavy Mineral Assemblages of ODP Site 724C: Insights
		into Sediment Provenance
	BPAOP-03	Anand Gupta (IIT, BHU)
		Optimizing Critical Suspension Speed in Gas-Sparged
		Vessels: Experimental Insights and Dimensionless
		Correlation Development
	BPAOP-04	Chinmaya Mahapatra (NIT, Raipur)
		Redox Cerium Oxide Nanoparticle coated Carbon
		Nanotube Nanocomposite for Antifungal Efficacy against
		Aspergillus fumigatus
	BPAOP-05	Anuradha Sharma (PRSU, Raipur)
		Assessment of Heavy Metal Contamination in Milk and

		Associated Health Risks in Raipur, India
	BPAOP-06	Shivendra Singh Dewhare (PRSU, Raipur)
		In silico molecular docking analysis of Staphylococcus
		aureus RecA with curcumin derivatives
	BPAOP-07	Joanna Rai (NIT, Raipur)
		Fabrication of High-Mechanical-Strength Bio-composite
		Scaffolds for Blood Vessel Regeneration and Wound
		Healing
	BPAOP-08	Dr. Veenu Joshi (PRSU, Raipur)
		Microbial degradation of textile dyes: An environmentally
		sustainable approach
1:30 PM -2:30 PM	LUNCH	

Session-II INVITED LECTURES (BPA/Computer Science)

(11:45 AM – 1:30 PM)

VENUE: Dr. CV Raman Hall

Chairman: Dr. Kishore Kumar Krishnani

(Dr. Dipti Pateriya: 9993489867; Ms. Priti Verma: 7587060007)

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11:45 AM – 1:30 PM	BPAIL-01	Prof. Dwijendra Kumar Gupta (University of	
		Allahabad)	
		LYSOSOMAL STORAGE DISEASES: Possible Use	
		of Nanophosphor-Nanogold coated Immunoconjugates	
		in Affinity purification of Lysosomal Transport	
		Vesicles.	
	BPAIL-02	Prof. Basant K. Tiwary (Pondicherry University,	
		Pondicherry)	
		Machine Learning in Clinical Diagnosis	
	BPAIL-03	Dr. Vijay Tripathi (Jacob Institute of	
		Biotechnology and Bioengineering, Prayagraj)	
		Remedies for Contaminants in wastewater by Moringa	
		oliefera and Azadiarchta indica Biochars: Cost-	
		effective, sustainable and Eco-friendly approach	
Chair Person: Prof. Kavita Thakur/ Prof. Vinod K. Patle			
	Invited 7	Talk (Computer Science)	
	CSIL-01	Dr. Neeraj Rathore (IGNT University)	
		AI in Action: Revolutionizing the Modern World	
	CSIL-02	Prof. Alok Kumar Singh Kushwaha (GGU,	
		Bilaspur)	
		Image Processing Application in Video Surveillance	
	CSIL-03	Dr. Rohit Raja (GGU, Bilaspur)	
		Advanced Detection and Classification of Lung	
		Nodules Using Mask-3 FCM and TWEDLNN	
		Algorithms	
	CSIL-04	Dr. Suraj Sharma (GGU, Bilaspur)	
		Blockchain technology and its application	

1:30 PM -2:30 PM	LUNCH	

Session-III

ORAL PRESENTATIONS (Chemistry)

(2:30 PM – 4:00 PM)

VENUE: M. Sc. Final Chemistry

CHAIRMAN: Prof. Gautam Kumar Patra

(Mr. Deepak Sahu: 6263181127; Mr. Manoj Kumar: 7000907616)

	CHOP-28	Dr. Shraddha Shukla (PRSU Raipur)
2:30 AM- 4:00 PM		Copper(II) and Nickel(II) Ternary Complexes: Synthesis, Physical
		Properties and Applications
	CHOP-29	Vandana Singh Suryavanshi (PRSU Raipur)
		Microencapsulation of Nelumbo Nucifera Leaf Extract with and
		its Antibacterial Studies
	CHOP-30	Devendra Kumar Gond (IIT BHU, Varanasi)
		Synthesis and Characterization of Environment-friendly
		Composite Film Using Turmeric Leaf Fiber and Polyvinyl Alcohol
	CHOP-31	Prateek Diwan (NIT Raipur)
		Utilizing Nature Tool Box for Crafting Metal Nanoparticles
	CHOP-32	Dharini Sahu (PRSU Raipur)
		Analysis of variations in Gaseous Emission factors from
		Different Solid Fuels Used in Domestic Combustion
	CHOP-33	Suryakant Manikpuri (PRSU, Raipur)
		Assessment of PM1 carbonaceous matter in an Urban-
		Industrial Environment

Session-III

ORAL PRESENTATIONS (Computer Sciences)

(2:30 PM - 4:00 PM)

VENUE: Dr. CV Raman Hall

Chairman: Prof. Neeraj Rathore

(Dr. Dipti Pateriya: 9993489867; Ms. Priti Verma: 7587060007)

02:30 PM-03:00	CSIL-05	Dr. Pramod Gaur
PM ONLINE		(Nottingham Trent University, Nottingham, United
		Kingdom)
		A Brain-Computer Interface
	CSOP-01	Paritosh Tripathi (DRML Avadh University Ayodhya UP)
03:00 PM- 4:30 PM		Efficient Mobility Solutions Through Cost-Effective Vehicle
		Management
	CSOP-02	Swagota Bera (PRSU, Raipur)
		A Review on Estimation of soil Micronutrients using Remote
		Sensing
	CSOP-03	Manisha Chandrakar (PRSU, Raipur)

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	Enhanced Energy Efficient LEACH Protocol Based on
	Modified Gravitational Search Algorithm for WSN-Assisted
	IoT
CSOP-04	Namrata Sharma (PRSU, Raipur)
	Stock Price Forecasting With
	Sentimental Analysis And LSTM Based Models: A Review
CSOP-05	V K Patle (PRSU, Raipur)
	Analytical study of MRHOF and OF0 Objective Functions
	in RPL For IoT
CSOP-06	Deepak Kumar Deshmukh (PRSU, Raipur)
	A Review of Frequent Cyber Threats and its Solutions
CSOP-07	Anju Tirkey (PRSU, Raipur)
	Review On Energy Consumption in Mobile Application
CSOP-08	Mukesh Kashyap (PRSU, Raipur)
	Scalability Challenges in Cache Coherence Protocols
CSOP-09	Ramesh Raj Dhruwe (PRSU, Raipur)
	A Review on Machine Translation Challenges for Low-
	Resource Languages
VELII	DICTORY FUNCTION