गुरू घासीदास विश्वविद्यालय (केन्नेय विश्वविव्यत्य अधिनेय 2009 ब्र. 25 के अंतर्गत स्वाप्ति केन्नेय किवविवाल्य) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur – 495009 (C.G.)

Report on Two Days Two days International Webinar, August 12-13, 2020

Emerging Areas in Chemical Sciences: Opportunities and Challenges

Organising Secretaries: Dr. CharuArora, Dr. S. S. Thakur Date of Event : August12-13, 2020

Venue : Online



गुरू घासीदास विश्वविद्यालय (केदीय विस्तविवाल्य अधिनियम 2008 क्र. 25 के अंतर्गत स्वापित केद्रीय विस्वविवाल्य) कोनी, बिलासपुर - 495009 (छ.ग.)



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Event Brochure

Details of Event Proceedings

Date	Details of the	Details of	Number of
(DD-MM-YYYY)	Session	Resource Person	Participants
August.12,2020	Inaugural Session	Chief Guest Prof . V. K. Singh , President CRSI, BangaluruProf. in Chemistry IIT, Kanpur	550
August.12,2020	Keynote Speaker: Enantioselective approach to Isoindolinones and related Heterocycles	Prof . V. K. Singh	550
	Cellulose and nanocellulose for developing photocatalytic materials for pollution remediation.	Prof. Anindya Ghosh, University of Arkansas at Little Rock, USA	550
August.12,2020	Quantum Dot Based Studies for the Development of Novel Anticholinesterase for Alzheimer's Disease	Prof. Kallol K Ghosh, Pt. Ravishankar Shukla Univ, Raipur	550
	Fluorescence spectroscopy: From rare-earth doped waveguides to single particle level.	Dr. Subhabrata Ghosh Gottingen, Germany	550
August.13,2020	Treatment of Melanoma and prevention of cancers	Prof. Surya De, American Chemical Society, USA	550
August.13,2020	Ligand Assisted Reaction of Metals	Prof. T. S. Pal, University of Johanesberg South Africa	550
August.13,2020	Engineering of Self- assembled	Prof. Sujit K Ghosh, IISER Pune	550

Renort of Workshon / Seminar Conducted on Research Methodoloav /

Criteria -III(3.3.2)

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Nanostructured Hydrogels for Biomedical Applications

<u>A Brief Abstract of the Event (Maximum 500 Words):</u>

There are tremendous opportunities and challenges in the area of chemical sciences. The asymmetric catalytic synthesis provides diverse application in pharmaceutical, fragrances and flavors and fine chemicals industries. The synthesis of isoindolinones and related heterocycles via enantioselective approach provided excellent routes for valuable chiral compounds. The pollution remediation through photocatalytic materials by using cellulose and nanocellulose has significant role in view of environmental perspective. In the advent of quantum dot it has been utilized as anovel anticholinesterase for the treatment of Alzheimer's disease. The use of fluorescence spectroscopy from rare-earth doped waveguides to single particle level has shown basic understanding of emission and excitations in semiconductor nanocrystals, nanorods and related chemical phenomenon. Recently, organic molecular approach has widely been applied for the treatment of melanoma and prevention of cancers. Metal chemistry using ligand assisted reaction improved the recent advances in the area of coordination chemistry. Researchers from worldwide engineeredthe Self-assembled nanostructured hydrogels for various biomedical applications.

Objectives of the Webinar

- 1. The main purpose of the webinar is to provide recent advancement, opportunities and challenges in the field of chemical sciences.
- 2. The specific research area of the resource persons percolated a significant advancement for the generation of innovative idea amongst the researchers.

In general, the webinarhas providedhuge knowledge and research techniques for the wide area of chemical sciences.

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