



## Orissa Chemical Society

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in collaboration with



## Department of Chemistry Veer Surendra Sai University of Technology Burla, INDIA

organizes

SECOND OCS EXTENDED LECTURE SERIES 2021

and sixth series of national conference

‘Recent Advancement in Materials Science’  
(RAIMS-2020)

on

**22<sup>nd</sup> - 24<sup>th</sup> January 2021**

## Important Information on the Webinar

### Registration Link:

[https://docs.google.com/forms/d/1pwtC3XMkzNqteNH4B\\_4Tw6cN-F7e360GJUa7EsU2ivw/edit](https://docs.google.com/forms/d/1pwtC3XMkzNqteNH4B_4Tw6cN-F7e360GJUa7EsU2ivw/edit)

### Scan QR Code or Click on the following Link to Join in the Webinar WhatsApp Group:



1. The registered participants will be provided with the web link (ZOOM platform) 24 hours before the webinar each day.
2. The ZOOM link will be active from **9 AM on 22<sup>nd</sup> January 2021, and from 9.30 AM on 23<sup>rd</sup> and 24<sup>th</sup> January 2021.**
3. During the webinar, the registered participants requiring a certificate will be provided with the attendance form each day and feedback form at the end of the conference.
4. Those who attend the webinar on both days will be issued a participation certificate that will be emailed to their respective emails (the email ID provided by the participant in the feedback form).
5. The participants will also be requested to provide feedback, for which an online form will be made available.
6. The webinar will be streamed live on YouTube, the link of which will be provided.
7. For further details/clarifications, please contact:

### OCS - RAIMS2020 Secretariate

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# Program

**Day 1: 22<sup>nd</sup> January 2021, Friday**

**Inaugural Session: 09.30 – 10.00 AM**

**Session Chair: President, OCS**



**Dr. Shashadhar Samal**

PRESIDENT, OCS

09.30 – 09.35 AM: Welcome Address



**Prof. Atal Chaudhuri**

Vice-Chancellor, VSSUT

09.35 – 09.40 AM: Welcome Address



**Prof. Uma Ranjan Jena**

Dean CDCE, VSSUT

09.40 – 09.45 AM: Welcome Address



**Dr. Priyaranjan Mohapatra**

Head, Dept. of Chemistry, VSSUT

Secretary-cum-Treasurer, OCS

09.45 – 09.50 AM: Vision of OCS EXTENDED  
LECTURE SERIES



**Dr. Bigyan Ranjan Jali**

Organizing Secretary

OCS EXTENDED LECTURE SERIES and  
RAIMS-2020

09.50 – 09.55 AM: About RAIMS Series of  
Meetings in VISSUT



**Dr. A. K. Barick**

Convenor

OCS EXTENDED LECTURE SERIES and RAIMS-  
2020

09.55 – 10.00 AM: Briefing on the Webinar  
Protocols

**Day 1**  
**22<sup>nd</sup> January 2021, Friday**

## **TECHNICAL SESSIONS**

**Technical Session I: 10.00 – 11.45 AM**  
**Session Chair: Prof. Gopabandhu Behera**



**Prof. Gopabandhu Behera**

Professor of Chemistry (Retd.), Sambalpur University, Burla



**Prof. Jyotirmayee Dash**  
IACS, Kolkata



**Dr. Rabindra Kumar Behera**  
NIT, Rourkela

10.00 – 11.00 AM	<b>Santi Swarup Bhatnagar Award Lecture</b> <b>Prof. Jyotirmayee Dash</b> Indian Association for the Cultivation of Science, Kolkata	Small molecules, DNA and Self-assembly
11.00 – 11.45 AM	<b>Invited talk</b> <b>Dr. Rabindra Kumar Behera</b> National Institute of Technology, Rourkela	Facilitating Iron Acquisition from Intact Ferritin Protein Nanocage

## Technical Session II: 11.45 – 01.15 PM

Session Chair: Prof. Raj Kishore Patel



**Prof. Raj Kishore Patel**

Professor of Chemistry, NIT, Rourkela



**Prof. Paritosh Mohanty**

Professor of Chemistry, IIT, Roorkee



**Prof. S. K. Swain**

Professor and Dean Academics  
VSSUT, Burla

11.45 – 12.30 PM	<b>Invited talk</b> <b>Prof. Paritosh Mohanty</b> Professor of Chemistry IIT, Roorkee	Nanoporous high surface area polymeric materials for CO <sub>2</sub> capture and utilization
12.30 – 01.15 PM	<b>Invited talk</b> <b>Prof. S. K. Swain</b> Professor of Chemistry and Dean Academics, VISSUT, Burla	Sustainable hybrid materials

**End of Day 1 Technical Sessions**

**Announcement: Day 2 Meeting Starts at 10 AM**

## Day 2: 23<sup>rd</sup> January 2021, Saturday

Technical Session III: 10.00 – 11.30 AM

Session Chair: Dr Kadambini Sarangi



**Dr. Kadambini Sarangi**

Principal Scientist, CSIR-IMMT Bhubaneswar



**Dr. Bamaprasad Bag**

Material Chemistry Department, CSIR-IMMT  
Bhubaneswar



**Dr. Prasana Kumar Sahoo**

Material Science Centre  
IIT, Kharagpur

10.00 – 10.45 AM	<b>Invited talk</b> <b>Dr. Bamaprasad Bag</b> Material Chemistry Department, CSIR-IMMT Bhubaneswar	Molecular probes in detection technology: photophysical responses of a rhodamine derivative with hypochlorous acid, effective signal translation on to electronic read-out
10.45 – 11.30 AM	<b>Invited talk</b> <b>Dr. Prasana Kumar Sahoo</b> Material Science Centre IIT, Kharagpur	Low-Dimensional Semiconductors for Optoelectronic and Sensor Applications

## Technical Session IV: 11.30 – 01.00 PM

Session Chair: Prof. A. K. Patnaik



**Prof. Ajaya K. Patnaik**

Professor of Chemistry (Retired), Ravenshaw University, Cuttack



**Dr. Bikash Kumar Jena**

Principal Scientist, Materials Chemistry  
Department, CSIR-IMMT, Bhubaneswar



**Dr. Debabrata Pradhan**

Associate Professor at Materials Science  
Centre, IIT Kharagpur

11.30 – 12.15 PM	<b>Invited talk</b> <b>Dr. Bikash Kumar Jena</b> Principal Scientist, Materials Chemistry Department, CSIR- IMMT, Bhubaneswar	Nanostructured Materials for Energy Conversion and storage Applications
12.15 – 01.00 PM	<b>Invited talk</b> <b>Dr. Debabrata Pradhan</b> Associate Professor at Materials Science Centre, IIT Kharagpur	Heterostructures for Hydrogen Generations

**End of Day 2 Technical Sessions**

**Announcement: Day 3 Meeting Starts at 10 AM**

## Day 3: 24<sup>th</sup> January 2021, Sunday

Technical Session V: 10.00 – 11.30 AM

Session Chair: Prof. Pramila Mishra



**Prof. Pramila Mishra**

Professor of Chemistry, Sambalpur University



**Dr. Rati Ranjan Nayak**

Senior Scientist in the Department of Organic Synthesis and Process Chemistry, CSIR-IICT



**Dr. K. C. Barick**

Nanotherapeutics and Biosensors Section, Chemistry Division, BARC, Mumbai

10.00 – 10.45 AM	<b>Invited talk</b> <b>Dr. Rati Ranjan Nayak</b> Senior Scientist in the Department of Organic Synthesis and Process Chemistry, CSIR-IICT	Self-Assembled Nano-Architectures of Bio-based Soft Materials and Their Applications
10.45 – 11.30 AM	<b>Invited talk</b> <b>Dr. K. C. Barick</b> Nanotherapeutics and Biosensors Section, Chemistry Division, BARC, Trombay	Development of Nanostructured Materials for Cancer Theranostics



**Technical Session VI: 11.30 – 01.00 PM**  
**Session Chair: Prof. Pramod Kumar Satpathy**



**Prof. Pramod Kumar Satpathy**  
Professor of Chemistry, North Odisha University



**Prof. Sukalyan Dash**  
Professor of Chemistry  
VISSUT, Burla



**Dr. Garudadhvaj Hota**  
Department of Chemistry, NIT Rourkela

11.30 – 12.15 PM	<b>Invited talk</b> <b>Prof. Sukalyan Dash</b> Professor of Chemistry VISSUT, Burla	Research activity using eggshell particles – a low cost material with high potential applications
12.15 – 01.00 PM	<b>Invited talk</b> <b>Dr. Garudadhvaj Hota</b> Department of Chemistry, NIT Rourkela	Electrospun Polymer Nanofiber Materials: Surface Functionalization and Environmental Applications

**Closing Function: 01.00 – 01.15 PM**

01.00 – 01.15 PM	Closing remarks by President, OCS Announcement of Next OCS Event by the Secretary-cum-Treasurer, OCS Vote of Thanks by Convener, SECOND OCS EXTENDED LECTURE SERIES
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