UoH SoC

FCSB-2024

प्रतिष्ठित संस्थान
INSTITUTION OF EMINENCE

Fostering Catalysis for Societal Benefit-2024

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2024

January 15 – 17

C R Rao Auditorium

Organized by

School of CHEMISTRY

University of Hyderabad

Speakers List_FCSB 2024

SPECIAL INVITED LECTURES (SIL)



Prof. A. Marinetti
ICSN, CNRS-Université Paris-Saclay



Prof. V. Gandon
ICMMO, Université Paris-Saclay



Prof. A. Voituriez
ICSN, CNRS-Université Paris-Saclay



Prof. L. Fensterbank
Collège de France, Paris



Prof. V. Michelet
Université de Nice



Prof. M. Etheve-Quelquejeu
LCPBT, Université Paris Cité



Prof. M. Hissler
ISCR, Université de



Prof. D. Virieux
ENSCM, Montpellier



Prof. Anju Chadha
IIT Madras



Prof. I. N. N. Namboothiri
IIT Bombay



Prof. K. R. Prasad
IISC, Bangalore



Prof. D. B. Ramachary
University of Hyderabad



Prof. A. K. Verma
Delhi University



Prof. A. Bisai
IISER, Kolkata



Prof. J. K. Bera
IIT Kanpur

CONCEPT TALKS (CT)



Prof. K. Bania
Tezpur University



Dr. M. Donnard
LIMA, Université de Strasbourg



Prof. A. Amgoune
ICBMS, Université Claude Bernard Lyon 1



Dr. A. de la Torre
ICMMO, Université Paris-Saclay



Prof. J. Guin
IACS, Kolkata



Dr. E. Balaraman
IISER Tirupati



Prof. C. M. R. Volla
IIT Bombay



Prof. M. Kapur
IISER Bhopal



Dr. A. Talukdar
IICB, Kolkata



Dr. D. Das
IISER Kolkata



Prof. R. Balamurugan
University of Hyderabad



Dr. R. Samanta
IIT Kharagpur



Dr. R. Chegondi
CSIR-IICT, Hyderabad



Dr. S. Easwar
Central University of Rajasthan



Prof. P. Phukan
Gauhati University

SHORT INVITED TALK (SIT)



Dr. S. S. Badsara
University of Rajasthan



Dr. L. Rout
Berhampur University



Dr. M. Ramu Yadav
IIT Delhi



Dr. D. K. Tiwari
CBMR-SGPGIMS Lucknow



Dr. Raju J. Reddy
Osmania University



Dr. Soumyajit Das
IIT Ropar



Dr. Durga. P. Hari
IISc, Bangalore



Dr. M. Shiva Prasad
Central University of Tamil Nadu



Dr. Guru B. Ramani
IIT Jammu



Dr. E. Gnanamani
IIT Roorkee



Dr. Tanmay Chatterjee
BITS, Hyderabad



Dr. Supriya Sabbani
JNU, Delhi



Dr. Nilanjana Majumdar
CDRI, Lucknow



Dr. Ujjwal Pal
CSIR-IICT, Hyderabad

Seminar Schedule_FCSB 2024

Fostering Catalysis for Societal Benefit (FCSB-2024)

15th January 8:30 AM to 17th January 1:00 PM

C R Rao Auditorium

University of Hyderabad

Day – 1 (15th Jan, 2024, Monday)	
8:30 – 9:15 AM	**REGISTRATION**
9:15 – 10:00 AM	**INAUGURATION**
	Opening Remarks: **Prof. Akhila Kumar Sahoo** (Convener, SoC, UoH) Welcome Address: **Prof. Ashwini Nangia** (Dean School of Chemistry, UoH) Inaugural Address: **Prof. B. J. Rao** (The Vice-Chancellor, UoH)
Asymmetric Catalysis (*CEFIPRA Session*)	
SESSION-1 (10:00 – 11:00 AM)	**Chairperson: Prof. Vinod K Singh** *(IIT Kanpur)*
10:00 – 10:25 AM	**SIL-01:** Prof. Angela Marinetti (ICSN, CNRS-Université Paris-Saclay) *Phosphorus Ligands for Enantioselective Gold(I) Catalysis*
10:25 – 10:45 AM	**CT-01:** Dr. Rambabu Chegondi (IICT Hyderabad) *CuH-Catalyzed Enantioselective Allylation using Alkoxy-allenes*
10:45 – 11:00 AM	**SIT-01:** Dr. Nilanjana Majumdar (CDRI Lucknow) *Unactivated Carboxylic Acids in Catalytic Asymmetric Ring Opening Reactions*
11:00 – 11:15 AM	**Tea Break**

Transition Metal Catalysis – I (*RSC Session*)	
SESSION 2 (11:15 AM – 1:00 PM)	Chairperson: **Prof. Ganesh Pandey** *(Banaras Hindu University)*
11:15 – 11:40 AM	**SIL-02:** Prof. Jitendra K. Bera (IIT Kanpur) *Asking Ligands to Lend a Hand*
11:40 AM – 12:00 Noon	**CT-02:** Prof. Manmohan Kapur (IISER Bhopal) *Distal C-H Activation of Ferrocenes: Synthesis of Ferrocene 1,3-derivatives*
12:00 Noon – 12:20 PM	**CT-03:** Prof. Chandra M. R. Volla (IIT Bombay) *Allenes in Metal-Catalyzed C-H Activation Reactions*
12:20 – 12:35 PM	**SIT-02:** Dr. Raju J. Reddy (Osmania University) *Modular Catalytic Routes for Sulfonyl-Benzoheteroles*
12:35 – 1:00 PM	**SIL-03:** Prof. Véronique Michelet (Université de Nice) *A Journey in Gold Catalysis Towards Heterocycles and Fragrances*
1:00 – 2:00 PM	**Lunch**
Transition Metal Catalysis – II (*ACS Session*)	
SESSION 3 (2:00 – 3:00 PM)	Chairperson: **Prof. D. Basavaiah** *(University of Hyderabad)*
2:00 – 2:25 PM	**SIL-04:** Prof. Akhilesh K. Verma (Delhi University) *Real-Time Reaction Monitoring: Mechanistic Analysis of Organic Reactions Using Online MS*
2:25 – 2:45 PM	**CT-04:** Prof. Prodeep Phukan (Gauhati University) *Ligand accelerating effect of DMAP in metal-catalyzed reactions*
2:45 – 3:00 PM	**SIT-03:** Dr. Laxmidhar Rout (Berhampur University) *Oxygen Bridged Bimetallic Catalyst [M-O-M], From Concept to Application in Organic Synthesis*
3:00 – 3:10 PM	**Tea / Coffee Break**
3:10 – 4:00 PM	**Poster Session**

Transition metal catalysis – III (*Aditya Scientific Session*)	
SESSION 4 (4:00 – 5:30 PM)	Chairperson: **Dr. D. S. Reddy** *(IICT Hyderabad)*
4:00 – 4:25 PM	**SIL-05:** Prof. David Virieux (ENSCM, Montpellier) *Phosphorus and Silicon: Can we marry them?*
4:25 – 4:50 PM	**SIL-06:** Prof. I. N. N. Namboothiri (IIT Bombay) *Catalytic Asymmetric Synthesis of Multi-functional and Bioactive Molecules*
4:50 – 5:10 PM	**CT-05:** Dr. Morgan Donnard (LIMA, Université de Strasbourg) *3-Amidobenzo[b]silines: From Synthesis to Promising Fluorescent Properties*
5:10 – 5:30 PM	**CT-06:** Prof. Kusum K. Bania (Tezpur University) *Stabilizing Primary Benzyl Carbocation in Zeolite-NaY for Selective Benzylation of Phenolic Compounds*
5:30 – 6:00 PM	**Interactive Session:** **French Speakers & Participants**
8:00 PM onwards	**Dinner**

Day – 2 (16th Jan, 2024, Tuesday)	
8:00 – 8:45 AM	**Breakfast**
Biocatalysis & Green Synthesis (*CEFIPRA Session*)	
SESSION 5 (9:00 – 10:30 AM)	Chairperson: **Dr. Srinivas Oruganti** *(Dr. Reddy's Institute of Life Sciences)*
9:00 – 9:25 AM	**SIL-07:** Prof. Anju Chadha (IIT Madras) *In Search of an Imine Reductase*
9:25 – 9:45 AM	**CT-07:** Dr. Arindam Talukdar (IICB Kolkata) *PROTACs: A New Frontier in Drug Discovery-Our Approach for Treating NAFLD/NASH*

9:45 – 10:10 AM	**SIL-08:** Prof. Mélanie Etheve-Quelquejeu (LCPBT, Université Paris Cité) *RNA Conjugates: from synthesis to application*
10:10 - 10:30 AM	**CT-08:** Dr. Dibyendu Das (IISER Kolkata) *Adaptive Life Inspired Nanomaterials via Systems Chemistry*
10:35 - 10:45 AM	**Tea / Coffee Break**
Photochemistry & Electrochemistry – I (*Sai Life Sciences Session*)	
SESSION 6 (10:45 – 11:35 AM)	Chairperson: **Prof. S. Chandrasekharan** *(IISc Bangalore)*
10:45 – 11:10 AM	**SIL-09:** Prof. Louis Fensterbank (Collège de France, Paris) *Organometallic Catalysis under Visible Light*
11:10 – 11:30 AM	**CT-09:** Prof. Joyram Guin (IACS Kolkata) *Photochemical Radical Oxime Group Transfer Using Sulfonyl Oxime Ethers*
11:30 – 11:45 AM	**SIT-04:** Dr. Durga Prasad Hari (IISc Bangalore) *Strain-Enabled Radical Spirocyclization Cascades*
11:45 AM – 12:00 Noon	**SIT-05:** Dr. M. Ramu Yadav (IIT Delhi) *Fluorinated Building Blocks: An Alternative Approach for the Synthesis of Organofluorine Compounds*
Photochemistry & Electrochemistry – II (*RSC Session*)	
SESSION 7 (12:00 Noon – 1:00 PM)	Chairperson: **Dr. D. K. Mahapatra** *(IICT Hyderabad)*
12:00 PM – 12:20 PM	**CT-10:** Prof. Abderrahmane Amgoune (ICBMS, Université Claude Bernard Lyon 1) *Nickel-Catalyzed Radical Cross Coupling of Amides*
12:20 PM –12:35 PM	**SIT-06:** Dr. Satpal Singh Badsara (University of Rajasthan) *Electro-Organic Synthesis: Green and Sustainable Approach for Forging New Bonds*
12:35 PM - 12:50 PM	**SIT-07:** Dr. Ujjwal Pal (CSIR-IICT Hyderabad) *Modulated MOFs for solar to hydrogen generation*

12:50 PM - 01:05 PM	**SIT-08:** Dr. Supriya Sabbani (JNU Delhi) *Sunlight responsive polyoxometalate systems*
1:00 – 2:00 PM	Lunch
Transition Metal Catalysis – IV (*Credence Scientific Session*)	
SESSION 8 (2:00 – 3:00 PM)	Chairperson: **Prof. T. P. Radhakrishnan** *(University of Hyderabad)*
2:00 – 2:25 PM	**SIL-10:** Prof. Vincent Gandon (ICMMO, Université Paris-Saclay) *HFIP in Homogeneous Catalysis*
2:25 – 2:45 PM	**CT-11:** Prof. R. Balamurugan (University of Hyderabad) *Diverse Cyclizations of o-Alkynyl Aniline Derived Vinylogous Carbamates*
2:45 – 3:05 PM	**CT-12:** Dr. E. Balaraman (IISER Tirupati) *Catalytic (De)hydrogenation Reactions for Sustainable Chemical Synthesis*
3:05 – 3:15 PM	**Tea / Coffee Break**
3:15 – 4:15 PM	**Poster Session**
Synthetic Methodology – I (*Aditya Scientific Session*)	
SESSION 9 (4:15 – 5:00 PM)	Chairperson: **Dr. Vijjulatha Manga** *(Osmania University)*
4:15 – 4:40 PM	**SIL-11:** Prof. Muriel Hissler (ISCR, Université de Rennes 1) *P-Based p-conjugated systems for optoelectronics*
4:40 – 5:00 PM	**CT-13:** Dr. S. Easwar (Central University of Rajasthan) *Diamine mediated reactivity patterns in MBH ketones.*
5:00 – 5:15 PM	**SIT-09:** Dr. Dharmendra K. Tiwari (CBMR Lucknow) *Development of New Methodologies for the Synthesis of N-Heterocycles Using DMSO as a Multipurpose Reactant*

Synthetic Methodology – II (*Sai Life Sciences Session*)	
SESSION 10 (5:15 – 6:00 PM)	Chairperson: **Prof. Raji Reddy** *(IICT Hyderabad)*
5:15 – 5:30 PM	**SIT-10:** Dr. E. Gnanamani (IIT Roorkee) *Superfast Formation of C-N and C-O Bonds in Water Microdroplets*
5:30 – 5:45 PM	**SIT-11:** Dr. Tanmay Chatterjee (BITS Hyderabad) *Iodine Catalyzed Chalcogenative C-H Annulation and Functionalization Reactions in Water: A Green Synthetic Approach to Potential Organochalcogens*
5:45 – 6:00 PM	**SIT-12:** Dr. Soumyajit Das (IIT Ropar) *Quinoidal Conjugated Polycycles with Antiaromatic & Diradical Properties*
6:00 – 6:15 PM	**SIT-13:** Dr. Guru B Ramani (IIT Jammu) *Unprecedented Decomposition of Alkynyl Hydrazones*
6:30 - 7:00 PM	**Cultural Event**
7:30 PM onwards	**Dinner**

Day – 3 (17th Jan, 2022, Saturday)	
8:00 – 8:45 AM	**Breakfast**
Total synthesis & Natural Products – I (*CEFIPRA Session*)	
SESSION 11 (9:00 – 10:00 AM)	Chairperson: **Prof. Anunay Samanta** *(University of Hyderabad)*
9:00 – 9:25 AM	**SIL-12:** Prof. K. R. Prasad (IISC, Bangalore) *Towards the Total Synthesis of Strychnine and Daphenylline*
9:25 – 9:45 AM	**CT-14:** Dr. Rajarshi Samanta (IIT-Kharagpur) *Insertion of Quinoid Carbene: Applications in Heterobiaryls to Natural Products*

9:45 – 10:00 AM	**SIT-14:** Dr. M. Shiva Prasad (Central University of Tamil Nadu) *Enantioselective Synthesis of Perhydroindole Scaffolds Via Aminocatalytic Remote [4+2]-Annulation*
10:00 - 10:10 AM	**Tea / Coffee Break**
Total synthesis & Natural Products – II (*NJC Session*)	
SESSION 12 (10:10 – 11:45 AM)	Chairperson: **Prof. C. Mallareddy** (*IIT Hyderabad*)
10:10 – 10:35 AM	**SIL-13:** Prof. Alakesh Bisai (IISER Kolkata) *Total Syntheses of Complex Secondary Metabolites*
10:35 – 10:55 AM	**CT-15:** Dr. Aurélien de la Torre (ICMMO, Université Paris-Saclay) *Copper-catalyzed enantioselective cycloadditions*
10:55 – 11:20 AM	**SIL-14:** Prof. Arnaud Voituriez (ICSN, CNRS-Université Paris-Saclay) *Gold-Catalysis: Development of New Methodologies and Total Synthesis of Natural Products*
11:20 – 11:45 AM	**SIL-15:** Prof. Dhevalapally B. Ramachary (University of Hyderabad) *Catalytic Asymmetric Synthesis of Swaminathan Ketones*
11:45 – 12:45 PM	**Prize Distribution & Vote of Thanks** **(*RSC and ACS*)**
12:45 – 1:35 PM	**Lunch**
1:35 PM onwards	**Departure**