

**National Organic Symposium Trust**

**11<sup>th</sup> J-NOST Conference for Research Scholars  
(J-NOST 2015)**



**Programme, Participants, Distinguished Invitees, Eli  
Lilly Thesis Award Winners & Sponsors**



**School of Chemical Sciences  
National Institute of Science Education and Research  
Bhubaneswar, Odisha, India  
December 14-17, 2015**



National Organic Symposium Trust (NOST), a non-profit organization, was established in early 1983 for promoting Organic Chemistry in India through scientific interactions in the country. The first NOST sponsored Organic Chemistry conference (OCC) was held in 1988, since then there had been conferences at regular intervals. Over a period of time, Organic Chemistry Conference organized by NOST has gained popularity worldwide and has become truly international. The organization also initiated a new programme of activity- a conference exclusively for young research scholars in organic chemistry (J-NOST Conference). The intent behind this initiative is to enthuse and network young organic chemistry researchers in India and abroad. The 1<sup>st</sup> J-NOST conference for research scholar was held at Pune in November 2004. Since then, nine conferences have been organized. The J-NOST conference at NISER, Bhubaneswar this year is the eleventh of its kind.

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<b>Convener</b>	Dr. S. Peruncheralathan
<b>Abstract Book &amp; Registration Desk</b>	Dr. S. Peruncheralathan
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<b>Posters</b>	Dr. Nagendra K Sharma
<b>Transportation</b>	Dr. Chandrasekhar Purohit

## Programme Schedule

### Day 1, 14<sup>th</sup> December 2015

8.30 – 9.15 Registration at Lecture Hall Complex

9.15 – 9.45 Inauguration

#### *Technical Session 1: 09:45 – 10:45 AM Chair: Prof V K Singh, IISER Bhopal*

09:45 – 10:00 AM	OP-1	“Collective Synthesis of Amaryllidaceae Alkaloids Through Common Intermediate” <b>Prachi Verma</b> , CBMR Lucknow
10:00 – 10:15 AM	OP-2	“1,6-Conjugate Addition of Dialkyl Zinc to p-Quinone Methides (p-QMs) in Continuous Flow” <b>Abhijeet S. Jadhav</b> , IISER Mohali
10:15 – 10:30 AM	OP-3	“Metal Catalysed Alkyne Activation for the Synthesis of Spirocyclic Heterocycles” <b>Michael J. James</b> , University of York, UK
10:30 – 10:45 AM	OP-4	“Rhodium Catalyzed Cyanation of Chelation Assisted C(sp <sup>2</sup> )-H Bonds” <b>Manthena Chaitanya</b> , IIT Madras

10:45 – 11:15 AM Tea Break

#### *Technical Session 2: 11:15 – 01:00 PM Chair: Prof A Srinivasan, NISER Bhubaneswar*

11:15 – 11:30 AM	OP-5	“Acylsilanes as Siloxycarbene Precursors and Their Application in Synthetic Chemistry” <b>Peter Becker</b> , RWTH Aachen University, Germany
11:30 – 11:45 AM	OP-6	“Reverse Wacker Oxidation and Domino Recombinant $\gamma$ -Isomerization of $\gamma$ -Vinyl- $\gamma$ -Butyrolactone: An Efficient Synthesis of (+)-trans-Disparlure, (-)- and (+)-Disparlure” <b>Venkati Bethi</b> , IIT Bombay
11:45 – 12:00 noon	OP-7	“Enantiospecific Syntheses of both Enantiomers of the Longtailed Mealybug Pheromone and their Evaluation in Vineyard Field Trials” <b>Remya Ramesh</b> , NCL Pune
12:00 – 12:15 PM	OP-8	“Chiral Bifunctional Organocatalyst Catalyzed Friedel-Crafts Reaction of Phenols with Isatin” <b>Jasneet Kaur</b> , Guru Nanak Dev University, Amritsar
12:15 – 12:30 PM	OP-9	“Total Syntheses of Ergot Alkaloids via Enantioselective Michael Reactions of Nitroalkanes with $\alpha$ , $\beta$ -Unsaturated Esters”

		<b>Subhajit Bhunia</b> , IISER Bhopal
12:30 – 12:45 PM	OP-10	“ <i>Fluorescent Adenine Schiff Base for Zinc Metal Ion Sensing</i> ” <b>Pratibha</b> , IIT Kanpur
12:45 – 01:00 PM	OP-11	“ <i>Direct Metal-Free Aromatic Amination Under Photolytic Conditions: Intramolecular N-Arylation with N-Chloroamines</i> ” <b>Sebastian C. Cosgrove</b> , University of Leeds, UK

01:00 – 02:15 PM      Lunch Break

**Technical Session 3: 02:15 – 03:15 PM Chair: Prof Ray Jones, Loughborough University**

02:15 – 02:30 PM	OP-12	“ <i>Reversible C–C Bond Activation Enables Stereocontrol in Rh-Catalysed Carbonylative Cycloadditions of Aminocyclopropanes</i> ” <b>Niall McCreanor</b> , University of Bristol, UK
02:30 – 02:45 PM	OP-13	“ <i>Reusable Palladium Nanocatalyst for Aminocarbonylation of Aryl Iodides</i> ” <b>Nidhi Sharma</b> , IIT Madras
02:45 – 03:00 PM	OP-14	“ <i>Total Synthesis of Jahanyne: an Apoptosis Inducing Lipopeptide</i> ” <b>Shivakrishna Kallepu</b> , IICT Hyderabad
03:00 – 03:15 PM	OP-15	“ <i>Lewis/Bronsted Acid Catalyzed Stereoselective Synthesis of N-fused Thiazino-Indoles and Linearly Fused Polyketals</i> ” <b>Santosh K. Nanda</b> , IIT Bombay

03:15 – 04:15 PM      Tea Break & Poster Session: **PP-1 to PP-35**

**Technical Session 4: 04:15 – 05:15 PM Chair: Pooja Maheshwari, IIS University, Jaipur**

04:15 – 04:30 PM	OP-16	“ <i>Directing Group Wins Over Acidity: Kinetically Controlled Regioselective Lithiation for Functionalization of 2-(2, 4-dihalophenyl)-1, 3-dithiane Derivatives</i> ” <b>Shanmugam Sathivel</b> , University of Hyderabad
04:30 – 04:45 PM	OP-17	“ <i>Enantiospecific Total Syntheses of Adunctins, Linderols and Murrayamines -O and P</i> ” <b>Dherange Balu Dadabhau</b> , IIT Kanpur
04:45 – 05:00 PM	OP-18	“ <i>Diels-Alder Reactions of Arynes with 1,2-Benzoquinones and Employing Arynes in Isocyanide Triggered Multicomponent Couplings</i> ” <b>Trinadh Kaicharla</b> , NCL Pune

05:00 – 05:15 PM	OP-19	“A Mild and Regioselective Route to Functionalised Quinazolines” <b>Tracy M. M. Maiden</b> , University of Sheffield, UK
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05:15 – 05:30 PM Short Break

05:30 – 06:00 PM Eli-Lilly Outstanding Thesis Awards Ceremony

**Evening Lecture 1: 06:00 – 06:45 PM Chair: Prof T K Chandrashekar, SERB, New Delhi**

06:00 – 06:45 PM	EL- 1	“Molecules that Enjoy Celebrity Status” <b>Dr. S. Chandrasekhar</b> , IICT Hyderabad
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07:30 – 09:00 PM Dinner

**Day 2, 15<sup>th</sup> December 2015**

**Technical Session 5: 09:15 – 10:30 AM Chair: Dr N K Sharma, NISER Bhubaneswar**

09:15 – 09:30 AM	OP-20	“A Two-in-One Nucleoside Probe to Study the Topology of Human Telomeric DNA Repeats by Using Fluorescence and NMR Spectroscopy” <b>Sudeshna Manna</b> , IISER Pune
09:30 – 09:45 AM	OP-21	“Rationally Designed Peptidomimetic Modulators of A $\beta$ Toxicity and Related Oxidative Stress in Alzheimer’s Disease” <b>K. Rajasekhar</b> , JNCASR Bangalore
09:45 – 10:00 AM	OP-22	“Acetaldehyde-dependent Aldolases in Organic Synthesis – Learning from Mechanistic Studies” <b>Carolin Bisterfeld</b> , Heinrich Heine Universitaet Duesseldorf, Germany
10:00 – 10:15 AM	OP-23	“Development of Methodologies for Site Selective Protein Modification” <b>Pralhad N. Joshi</b> , IISER Bhopal
10:15 – 10:30 AM	OP-24	“Novel 1, 2-Dihydroisoquinoline Derivatives as a Next Generation HIV-1 Integrase Strand Transfer Inhibitors (INSTI’s)” <b>Urvashi</b> , Delhi University

10:30 – 11:00 AM Tea Break

**Technical Session 6: 11:00 – 12:45 PM Chair: Dr C S Purohit, NISER Bhubaneswar**

11:00 – 11:15 AM	OP-25	<i>“Lewis Acid Catalyzed <math>\alpha</math>- and <math>\beta</math>-Functionalization of Ynamide: Access to <math>\alpha</math>-Haloenamides and Dihydroisoquinolones”</i> <b>B Prabagar</b> , University of Hyderabad
11:15 – 11:30 AM	OP-26	<i>“A Novel, One-Pot, Multi-Component Synthesis of Fused Ring Systems”</i> <b>Lee Eccleshare</b> , University of Nottingham, UK
11:30 – 11:45 AM	OP-27	<i>“Hydrogen Production from Formic Acid by Bifunctional Ir-a NHC Catalyst”</i> <b>Siladitya Laha</b> , IIT Kanpur
11:45 – 12:00 noon	OP-28	<i>“Mild Carbonylations of Alkenes with CO Surrogates”</i> <b>Paul Henry Gehrtz</b> , Universitaet Regensburg, Germany
12:00 – 12:15 PM	OP-29	<i>“Mild Approach to 2-Acyfurans via Intercepted Meyer-Schuster Rearrangement”</i> <b>Prabhakararao Tharra</b> , IIT Madras
12:15 – 12:30 PM	OP-30	<i>“Unusual Approaches for the Cyclopentannulation of Aryls and Heteroaryls”</i> <b>Bishnupada Satpathi</b> , IISER Mohali
12:30 – 12:45 PM	OP-31	<i>“A One-pot Strategy Towards the Synthesis of Polycyclic Motifs via Lewis Acid/ Palladium Mediated Desymmetrization of Diazanorbornenes with Ortho-functionalized Aryl Iodides”</i> <b>Saranya S</b> , NIIST Trivandrum

12:45 – 02:00 PM Lunch Break

**Technical Session 7: 02:00 – 03:15 PM Chair: Carolin Bisterfeld, Heinrich Heine**

**Universitaet Duesseldorf, Germany**

02:00 – 02:15 PM	OP-32	<i>“Visible Light-Mediated Metal-Free Synthesis of Vinyl Sulfones from Sulfinates”</i> <b>Andreas Meyer</b> , Universitaet Regensburg, Germany
02:15 – 02:30 PM	OP-33	<i>“Synthesis of Bisarylnitromethyl Sulfones Using <math>Fe(NO_3)_3 \cdot 9H_2O</math> with Aryl Aldehydes and Aryl Sulfonyl Hydrazides”</i> <b>Dinabandhu Sar</b> , IIT Guwahati
02:30 – 02:45 PM	OP-34	<i>“Cyclotriguaiacylene Based Molecular Capsules”</i> <b>Pardha Saradhi Satha</b> , NISER Bhubaneswar
02:45 – 03:00 PM	OP-35	<i>“Stimuli-Responsive Materials Based on Ring-Opening of 2,2-Diarylbzopyrans (Chromenes)”</i>

		<b>Arindam Mukhopadhyay</b> , IIT Kanpur
03:00 – 03:15 PM	OP-36	“ <i>An Approach Toward Monitoring Reactive Oxygen Species and Gaso- Transmitters in Living Systems</i> ” <b>Shahi Imam Reja</b> , Guru Nanak Dev University, Amritsar

03:15 – 04:15 PM      Tea Break & Poster Session: **PP-36** to **PP-70**

**Technical Session 8: 04:15 – 05:30 PM Chair: Dr S Peruncheralathan, NISER**

04:15 – 04:30 PM	OP-37	“ <i>Development of Gold(I) and Indium(III) Catalysed Reaction</i> ” <b>Stacey Webster</b> , Heriot-Watt University, Edinburgh, UK
04:30 – 04:45 PM	OP-38	“ <i>Ruthenium Catalyzed Selective <math>\alpha</math>- and <math>\alpha,\beta</math>-Deuteration of Alcohols Using D<sub>2</sub>O</i> ” <b>Basujit Chatterjee</b> , NISER Bhubaneswar
04:45 – 05:00 PM	OP-39	“ <i>Total Synthesis of Amaryllidaceae Isocarbostryls: Pancratistatin, 7-Deoxypancratistatin and trans-Dihydronarciclasine</i> ” <b>Rushil Fernandes</b> , CBMR Lucknow
05:00 – 05:15 PM	OP-40	“ <i>Azetidine- and N-Carboxylic Azetidine- Iminosugars as Amyloglucosidase Inhibitors: Synthesis, Glycosidase Inhibitory Activity and Molecular Docking Studies</i> ” <b>Kishor S. Gavale</b> , Savitribai Phule Pune University, Pune
05:15 – 05:30 PM	OP-41	“ <i>First Total Synthesis of Trehalose Containing Branched Oligosaccharide OSE-1 of Mycobacterium gordonae (Strain 990)</i> ” <b>Manishkumar A. Chaube</b> , IIT Bombay

05:30 – 06:00 PM      Tea Break

**Evening Lecture 2: 06:00 – 06:45 PM Chair: Prof V Chandrasekhar, NISER Bhubaneswar**

06:00 – 06:45 PM	EL- 2	“ <i>Ethics in Research and Publishing</i> ” <b>Prof. S. Chandrasekaran</b> , IISc Bangalore
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07:30 – 09:00 PM      Dinner

**Day 3, 16<sup>th</sup> December 2015**

**Technical Session 9: 09:15 – 10:45 AM Chair: Dr C Gunanathan, NISER Bhubaneswar**

09:15 – 09:30 AM	OP-42	“ <i>Transition Metal Free Couplings of Secondary and Tertiary Boronic Esters</i> ” <b>Marcin Odachowski</b> , University of Bristol, UK
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09:30 – 09:45 AM	OP-43	“ <i>Design and Synthesis of Polycyclic Sulfones, Oxa-Bowls and Propellane Derivatives via Ring-Rearrangement Metathesis as a Key Step</i> ” <b>Rama Gunta</b> , IIT Bombay
09:45 – 10:00 AM	OP-44	“ <i>An Asymmetric Route to the Synthesis of Hippolachnin A</i> ” <b>Ritabrata Datta</b> , IACS Kolkata
10:00 – 10:15 AM	OP-45	“ <i>A Regioselective Aerobic <math>\alpha</math>-Arylation of Benzyl Ketones with Aromatics</i> ” <b>Nagnath Yadav More</b> , IISER Pune
10:15 – 10:30 AM	OP-46	“ <i>Ru (II)-Catalyzed C–H Activation: Site-Selective Conjugate Addition Reaction</i> ” <b>Kiran Bettadapur</b> , IISc, Bangalore
10:30 – 10:45 AM	OP-47	“ <i>Synthesis of Substituted Pyridines and Acyl Pyrrole via Aza-Annulation of Enynyl Azides</i> ” <b>Sujatarani A. Panda</b> , ICT, Hyderabad

10:45 – 11:00 AM      Tea Break

**Technical Session 10: 11:00 – 12:45 AM    Chair: Dr P Mal, NISER Bhubaneswar**

11:00 – 11:15 AM	OP-48	“ <i>Total Synthesis of Plantazolicin A – Hairpin Structure?</i> ” <b>Hiroki Wada</b> , University of Nottingham, UK
11:15 – 11:30 AM	OP-49	“ <i>An Enantioselective Formal Synthesis of (-) Vinigrol</i> ” <b>Vipul V. Betkekar</b> , IIT Bombay
11:30 – 11:45 AM	OP-50	“ <i>Total Syntheses of (+)-Petromyroxol, (+)-Monocerin and Seimatopolide B via HKR, Tandem Dihydroxylation-<math>S_N2</math> Cyclization and Tandem Aminoxylation-Allylation Approach</i> ” <b>U. Nookaraju</b> , NCL Pune
11:45 – 12:00 noon	OP-51	“ <i>A Facile Approach for the Synthesis of C13-C24 Fragment of Maltepolides A, C and D</i> ” <b>P. Sankar Rao</b> , ICT, Hyderabad
12:00 – 12:15 PM	OP-52	“ <i>Alkylbenzenes as Aroyl Source towards C–C and C–Heteroatom Bond Formation via Cross Dehydrogenative Coupling (CDC) Approach</i> ” <b>Wajid Ali</b> , IIT Guwahati
12:15 – 12:30 PM	OP-53	“ <i>Heteroatom Controlled Transition Metal Catalyzed Site-selective C–H Functionalization of Isoquinolines</i> ” <b>Virendra Kumar Tiwari</b> , IISER Bhopal
12:30 – 12:45 PM	OP-54	“ <i>Synthesis of Substituted Benzo and Hetero Fused thiophenes Catalyzed by Transition Metals</i> ”

		<b>Anand Acharya</b> , JNCASR Bangalore
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12:45 – 02:00 PM Lunch Break

**Technical Session 11: 02:00 – 03:30 PM Chair: Tracy M. M. Maiden, University of Sheffield**

02:00 – 02:15 PM	OP-55	“ <i>Matrix Isolation of Carbonic and Oxalic Acid</i> ” <b>Jan Philipp Wagner</b> , Justus-Liebig Universitaet Gieß, Germany
02:15 – 02:30 PM	OP-56	“ <i>Stereoselective Vinylogous Mukaiyama Michael-type Reaction of 3-Alkenyl-2-silyloxyindoles with in-situ Generated o-Quinone Methides</i> ” <b>Amol P Jadhav</b> , IIT Delhi
02:30 – 02:45 PM	OP-57	“ <i>Bis-Triazolyl Diguanosine Derivatives as Transmembrane Ion Channels</i> ” <b>Y. Pavan Kumar</b> , IACS Kolkata
02:45 – 03:00 PM	OP-58	“ <i>Nu-Addition vs S<sub>N</sub>Ar Study: Regio- and Stereoselective Hydrothiolation and Hydroxylation of Haloarylalkynes over S- and O-Arylation of Aryl Halides</i> ” <b>Monika Patel</b> , University of Delhi
03:00 – 03:15 PM	OP-59	“ <i>Regioselective [3+3] Annulations of Morita-Baylis-Hillman (MBH) Adducts of Nitroalkenes for the Synthesis of Functionalized Carbo- and Heterocycles</i> ” <b>Lakshminarayana S</b> , IIT Bombay
03:15 – 03:30 PM	OP-60	“ <i>A Synthetic Route to Chiral Dihydrobenzothiazines via Ring-Opening of Activated Aziridines with 2-Halothiophenols/Cu-Powder Mediated C–N Cyclization</i> ” <b>Masthanvali Sayyad</b> , IIT Kanpur

03:30 – 04:30 PM Tea Break & Poster Session: **PP-71 to PP-105**

**Technical Session 12: 04:30 – 06:15 PM Chair: Dr Ravikumar, NISER Bhubaneswar**

04:30 – 04:45 PM	OP-61	“ <i>Syntheses of Highly Substituted Naphthols and Dibenzothiophene S,S-dioxides via Diels-Alder reaction of 1,3-diarylbenzo[c]furans with DMAD/Thiophene S,S-dioxides</i> ” <b>Jayachandran Karunakaran</b> , University of Madras
04:45 – 05:00 PM	OP-62	“ <i>Subcomponent Synthesis via Mechanochemistry</i> ” <b>Prasit Kumar Sahoo</b> , NISER Bhubaneswar
05:00 – 05:15 PM	OP-63	“ <i>Exploration of 4-hydroxydithiocoumarin in the Synthesis of Unreported Unusual Bis(thiochromene)-12,14(13H)-dione</i> ”

		<i>and Di-, Tri- Substituted 3,4-Dihydrothiochromeno[3,2-e][1,3]thiazin-5(2H)-one Derivatives using MCR Strategy</i> <b>Karuna Mahato</b> , IIT Guwahati
05:15 – 05:30 PM	OP-64	<i>“Charge Transfer Complexes of Imidazo[1,2-a]pyridines with DMAD: Experimental and Theoretical Investigations”</i> <b>Pooja Maheshwari</b> , The IIS University, Jaipur
05:30 – 05:45 PM	OP-65	<i>“Design And Synthesis of Redox Active <math>\Pi</math>-Conjugated Dyads: Structure Dependent Nonlinear Optical Properties”</i> <b>Sarbjeet Kaur</b> , Guru Nanak Dev University, Amritsar
05:45 – 06:00 PM	OP-66	<i>“Ammonium Persulfate/DMSO a Versatile Reagent in Organic Synthesis”</i> <b>Pankaj S. Mahajan</b> , NCL Pune

6.00 – 06:15 PM                    *“Announcement of XII J-NOST 2016 in CDRI Lucknow”*  
**Dr S Batra**, CDRI Lucknow

07:00 – 09:00 PM                Special Dinner

#### **Day 4, 17<sup>th</sup> December 2015**

#### **Technical Session 13: 09:15 – 10:45 AM    Chair: Dr S Batra, CDRI, Lucknow**

09:15 – 09:30 AM	OP-67	<i>“Towards the Anti-Cancer Potential of Aminoquinoline-Pyrimidine Conjugates”</i> <b>Mohit Tripathi</b> , University of Delhi
09:30 – 09:45 AM	OP-68	<i>“Synthesis of Prolyl Nucleoside Triphosphate (prNTP) Analogues as New Terminators for DNA Sequencing and Study of Single Nucleotide Extension by LC-MS”</i> <b>Chandrasekhar Reddy Gade</b> , NISER Bhubaneswar
09:45 – 10:00 AM	OP-69	<i>“Functionalized Graphene Oxide Targets Tubulin and Causes Significant Anticancer Activity”</i> <b>Batakrishna Jana</b> , IICB Kolkata
10:00 – 10:15 AM	OP-70	<i>“Diversity Oriented Synthesis of Small Ring Carbocycles and Heterocycles Form Biocatalytically Derived <math>\alpha</math>-Substituted-<math>\beta</math>-Hydroxyester”</i> <b>Debabrata Das</b> , IIT Kharagpur
10:15 – 10:30 AM	OP-71	<i>“Synthesis of Functionalized Heterocyclic and Carbocyclic Scaffolds via Lewis Acid Catalyzed [3+2]-Annulation Reactions of Strained Rings”</i> <b>Ashok Kumar Pandey</b> , IIT Ropar

10:30 – 10:45 AM	OP-72	<p><i>“Supramolecular Aggregates of AIEE Active Hexaphenylbenzene Derivatives: A Search for New Functional Nanomaterial”</i></p> <p><b>Subhamay Pramanik</b>, Guru Nanak Dev University, Amritsar</p>
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10:45 – 11:15 AM      Tea Break

**Technical Session 14: 11:00 – 12:15 PM    Chair: Dr V Krishnan, NISER Bhubaneswar**

11:00 – 11:15 AM	OP-73	<p><i>“2-Iodoenones Derived from Carbohydrates: An Indispensable Chiral Building Block for Accessing Heterocyclic Scaffolds”</i></p> <p><b>Kanchan Mal</b>, IICB Kolkata</p>
11:15 – 11:30 AM	OP-74	<p><i>“Application of BODIPY Dyes as Fluorecent Chemosensors for Selective Detection of Analytes”</i></p> <p><b>Navdeep Kaur</b>, Guru Nanak Dev University, Amritsar</p>
11:30 – 11:45 AM	OP-75	<p><i>“Efficient Synthesis of 3,3'-Mixed Bisindoles via Lewis Acid Catalyzed Reaction of Spiro-epoxyoxindoles and Indoles”</i></p> <p><b>Subrata Maity</b>, CBMR Lucknow</p>
11:45 – 12:00 noon	OP-76	<p><i>“Pd(OAc)<sub>2</sub>/AgOAc-Catalytic System-Based Z Selective Arylation of Acrylamides and Amides-Derived from Allyl Amines”</i></p> <p><b>Ramarao Parella</b>, IISER Mohali</p>
12:00 – 12:15 PM	OP-77	<p><i>“Copper-Catalyzed C–N Bond Cross-Coupling with Boronic Acids: Chemoselective N-Arylation of C-Amino-NH-Azoles”</i></p> <p><b>D. Nageswara Rao</b>, IIIM Jammu</p>

12:15 – 12:30 PM      Concluding Remarks

***End of Symposium***

12:30 – 01:45 PM      Lunch

01:45 – 07:00 PM      Sightseeing (***Konark Sun Temple***)

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