

XII NOST Conference at Majorda Beach Resort, Goa

(July 07 – 10, 2007)

July 07, 2007 (Saturday)

3.45 – 4.20	HIGH TEA
4.25 - 4.40 PM	Introductory Remarks (Goverdhan Mehta/Vinod Singh)
SESSION 1 (4.40 – 6.10 PM)	Chairperson: Dr. K. Nagarajan
4.40 – 5.10	Ray C. F. Jones (Loughborough, UK) <i>Isoxazoles and pyrazoles : novel amino acids by 1,3-dipolar cycloaddition</i>
5.10 – 5.40	Ganesh Pandey (Pune, India) <i>Global strategy towards the synthesis of structurally complex biologically active alkaloids</i>
5.40 – 6.10	Sue Gibson (London, UK) <i>A new approach to C₂- and C₃-symmetric chiral molecules</i>
6.10 – 6.25 PM	BREAK
SESSION 2 (6.30 – 8.00 PM)	Chairperson: Professor G.S.R. Subba Rao
6.30 – 7.00	Uday Maitra (Bangalore, India) <i>Modular design of fluorescent cation sensors</i>
7.00 – 7.30	Jörg Rademann (Berlin, Germany) <i>Phosphorane resins as a flexible starting point for the synthesis and dynamic evolution of protease inhibitors</i>
7.30 – 8.00	Sandeep Verma (Kanpur, India) <i>Diverse morphological consequences of simple peptide sequences</i>
8.00 PM	MIXER & DINNER

July 08, 2007 (Sunday)

SESSION 3 (8.30 – 10.30 AM)

Chairperson: Professor S. Chandrasekaran

- 8.30 - 9.00 H. Hopf (Braunschweig, Germany)
Conjugated polyolefins - an old topic of organic chemistry in new light
- 9.00 - 9.30 S. Sankararaman (Chennai, India)
Can π - π interactions restrict acetylenic bond rotation? Ethynylpyrene substituted molecular hinges as probes
- 9.30 - 10.00 Andrei Yudin (Toronto, Canada)
Amphoteric molecules for organic synthesis
- 10.00 - 10.30 Faiz A. Khan (Kanpur, India)
Serendipitously discovered diazomethane mediated novel molecular rearrangements

10.30 – 10.45 AM

TEA/COFFEE

SESSION 4 (10.50 – 1.05 PM)

Chairperson: Professor M. Periasamy

- 10.50 - 11.20 Richard J. K. Taylor (York, UK)
Recent synthetic approaches to bioactive natural products
- 11.20 - 11.50 Chan-Mo Yu (Suwon, Korea)
Stereoselective synthesis of bicyclic lactones from allene-aldehydes: synthetic approach to (-)-isocyclocalopin A
- 11.50 - 12.20 S. Chandrasekhar (Hyderabad, India)
Amino acids as targets and as building blocks for the synthesis of bioactives
- 12.20 - 12.50 Tim J. Donohoe (Oxford, UK)
New catalytic methods designed for the efficient synthesis of natural products
- 12.50 – 1.05 M. Kar (Kharagpur, India)
Harnessing the DNA-cleaving potential of enediynes: rational design of azo benzene based C_2 -symmetric systems

1.10 PM

LUNCH

3.40 – 3.55

TEA/COFFEE

SESSION 5 (4.00 – 5.45 PM)

Chairperson: Dr. Matt Tozer

- 4.00 – 4.30 K. Maruoka (Kyoto, Japan)
Catalytic asymmetric synthesis with designer chiral organocatalysts

- 4.30 – 5.00 Peter O'Brien (York, UK)
Back to basics: catalytic asymmetric synthesis using organolithiums
- 5.00 – 5.30 M. Kitamura (Nagoya, Japan)
Goodwin-Lions-type N₄ ligands R-BINAN-R'-Py—An application to asymmetric hydrogenation
- 5.30 – 5.45 S. Roy (Bangalore, India)
Enantioselective total synthesis of a novel polyketide natural product (+)-integrasone, an HIV-1 integrase inhibitor
- 5.45 – 6.00 PM BREAK (Juice)

SESSION 6
(6.05 – 7.30 PM)

Chairperson: Professor Vishwakarma Singh

- 6.05 – 6.35 Dilip D. Dhavale (Pune, India)
Iminosugars as glycosidase inhibitors: synthesis and biological study
- 6.35– 6.55 K.P. Kaliappan (Mumbai, India)
Simplicity to complexity through diversity: syntheses of angucyclinones and C-aryl glycosides
- 6.55 – 7.15 I. S. Aidhen (Madras, India)
New strategy for the synthesis of 2-deoxy-C-aryl nucleosides framework using acyl anion and associated surprises
- 7.15 – 7.30 Vishal Rai (Mumbai, India)
Studies on the conjugate addition to nitroalkenes
- 7.30 PM GOAN CARNIVAL & DINNER

July 9, 2007

SESSION 7
(8.30 – 10.40 AM)

Chairperson: Dr. Nitya Anand

- 8.30 – 9.00 David Rees (Cambridge, UK)
Fragment based drug discovery – from crystal to clinic
- 9.00 – 9.30 Sundeep Dugar (Hyderabad, India)
Phenotypic drug discovery
- 9.30 – 10.00 M. Iqbal Chowdhary (Karachi, Pakistan)
Exciting discoveries in the field of natural product chemistry
- 10.00 – 10.20 Kamaljit Singh (Amritsar, India)
Structure diversification of heterocycles: synthetic methodologies for “drug-like” molecular scaffolds

10.20 – 10.40	Sanjay Batra (Lucknow, India) <i>Baylis-Hillman chemistry assisted heterocycle syntheses</i>
10.40 – 10.55	TEA/COFFEE
SESSION 8 (11.00 – 1.10 PM)	Chairperson: Professor H. Ila
11.00 – 11.30	E. Peter Kundig (Geneva, Switzerland) <i>Organic synthesis using transition metal Lewis acid - mediated and – catalysed reactions</i>
11.30 – 12.00	Michael Willis (Oxford, UK) <i>Tandem palladium catalysis: new routes to heterocycles</i>
12.00 – 12.30	Subrata Ghosh (Kolkata, India) <i>Rapid access to densely functionalised bridged and condensed ring systems through a domino process involving ring opening-ring closing metathesis</i>
12.30 – 12.50	K.V. Radhakrishnan (Trivandrum, India) <i>Palladium catalyzed ring opening of bicyclic hydrazines: stereoselective synthesis of functionalized cyclopentenones</i>
12.50 – 1.10	S. Muthusamy (Tiruchirappalli, India) <i>Studies on rhodium carbenoids towards terpenoids, alkaloids and macrocycles</i>
1.15	LUNCH
2.30 onwards	CITY TOURS (<i>inquiries/reservations at the front desk</i>)
7.00 -10.00 PM	LIGHT INDIAN MUSIC & DINNER
Special Dinner talk (7.40 – 8.00 PM)	Chairman: Dr. Sukh Dev G. Mehta (Bangalore) <i>Chemistry towards a better future: Does it need repositioning?</i>

July 10, 2007

Session 9 (8.30 – 10.20)	Chairperson: Dr. Philip Cornwall
8.30 – 9.00	King Kuok (Mimi) Hii (London, UK) <i>The development of the enantioselective aza-Michael reaction</i>
9.00 – 9.20	K. R. Prasad (Bangalore, India) <i>Enantiodivergent synthesis of biologically active natural products</i>
9.20 – 9.40	S. K. Chattopadhyay (Kalyani, India) <i>New routes to α-amino acids and cyclic peptides of biological relevance</i>

9.40 – 10.00	S. Hajra (Kharagpur, India) <i>Asymmetric aldol reactions under normal and inverse addition modes of the reagents</i>
10.00 – 10.15	Priti Gupta (Pune, India) <i>Enantioselective total synthesis of biologically active natural products via hydrolytic kinetic resolution and Sharpless asymmetric dihydroxylation</i>
10.15 – 10.30	TEA/COFFEE
Session 10 (10.35 – 12.00)	Chairman: Professor D. Basavaiah
10.35 – 11.05	Jonathan Clayden (Manchester, UK) <i>Flat-packed stereochemistry: dearomatising reactions in synthesis</i>
11.05 – 11.35	D. Mal (Kharagpur, India) <i>Epoxycyclopentenone rearrangement in the synthesis of polycyclic 2-pyrone natural products</i>
11.35 – 11.55	K. K. Kapoor (Jammu, India) <i>Unprecedented reaction between 1,2-phenylene diamine and doubly activated olefins: Mechanistic revelation and development of click chemistry</i>
11.55 – 12.20	Concluding Remarks
12.20	LUNCH followed by departure.