

58th Annual Meeting of the Indian Academy of Sciences

The 58th Annual Meeting will be held at Ahmedabad from 6 to 9 November 1992.

The scientific programme will consist of two symposia, evening lectures and lecture presentations by new Fellows and Associates.

The first symposium will be the "J. B. S. Haldane Centenary Symposium". The speakers are: Sahotra Sarkar on 'Haldane and the foundation of theoretical population genetics'; J. H. Edwards on 'Haldane and the mutation rate'; Partha Majumder on 'Formal genetics of complex disorders in man' and N. V. Joshi on 'Evolution when there are two or more conflicting interests: some population genetic studies'. The second symposium is on "Interactive Processes in the Near-Earth Environment". The speakers are: A. C. Das on 'Solar wind magnetosphere interactions'; T. Chandrasekhar on 'Comets as probes of the interplanetary medium'; V. V. Somayajulu on 'High latitude-low latitude ionosphere coupling'; Y. C. Saxena on 'Laboratory simulation of ionosphere irregularities'; G. S. Lakhina on 'Electrodynamic coupling between different regions of the atmosphere'; R. Sridharan on 'Ionosphere-thermosphere coupling', and A. Jayaraman on 'Middle atmosphere coupling processes'.

The evening lectures will be on "Some interesting problems in the development of ISRO satellites" by K. Kasturirangan and "Gujarat through the ages" by S. R. Rao.

The following is the provisional list of lectures by Fellows and Associates.

R. M. Godbole, University of Bombay, Bombay, "Beamstrahlung and super colliders"; S. R. Wadia, TIFR, Bombay, "Black holes in string theory"; J. Chandrasekhar, IISc., Bangalore, "Computational studies of organic reactivity"; E. D. Jemmis, University of Hyderabad, Hyderabad, "Three-membered rings and three-membered rings: Tips from boron"; Asis Datta, JNU, New Delhi, "A step towards developing transgenic plants with high nutritional quality"; S. Dattagupta, JNU, New Delhi, "Dynamics of supercooled liquids"; S. Ramasesha, IISc., Bangalore, "Correlated electronic structure of conjugated systems"; S. R. Shenoy, University of Hyderabad, Hyderabad, "Disorder parameter description of phase transitions"; A. M. Kayastha, BHU, Varanasi, "Studies on β -subunit of tryptophan synthase from *Salmonella typhimurium*"; J. B. Udgaonkar, TIFR, Bombay, "Protein folding: Studies on barstar"; J. Gowrishankar, CCMB, Hyderabad, "How do organisms cope in environments of low water activity? Some answers from *Escherichia coli*"; P. S. Goel, ISRO Satellite Centre, Bangalore, "Attitude control of Indian satellites: Challenges met through innovations"; M. Vidyasagar, Centre for Artificial Intelligence and Robotics, Bangalore, "Artificial neural networks: Some recent results"; Gomathy Gopinath, AIIMS, New Delhi, "Brain repair".

INSA Medal for Young Scientists – Award 1992

Basu, Partha, Department of Inorganic Chemistry, Indian Association for the Cultivation of Science, Calcutta.

He has contributed to the synthesis, structure and reactivity of conformationally interesting coordination compounds.

Bhatt, Jaivardhan Ramanlal, Ministry of Environment & Forests, New Delhi.

He has made detailed experimental and ultrastructural studies elucidating gum and resin production in guggal and certain other important Indian tree taxa.

Gaikar, Vilas Gajanan, Department of Chemical Technology, University of Bombay, Bombay.

He has made innovative contributions in separation processes.

Ghosh, Sunil Kumar, Bio-organic Division, Bhabha Atomic Research Centre, Bombay.

He has contributed towards the development of a new approach to peptide synthesis.

Gupta, Vibha, Tata Energy Research Institute, New Delhi.

She has done outstanding work on regeneration and use of molecular biology, somatic hybridization, genetic transformation and isolation of species-specific repetitive DNA sequences from *Brassica nigra*, parent of *B. juncea*, for phylogenetic studies and to increase mustard productivity.

Hayaran, Archana, Department of Anatomy, All India Institute of Medical Sciences, New Delhi.

She has elegantly mapped the development of dentate nucleus and its neuronal connections in early prenatal human life and has developed a new technology for the sectioning of foetal brain tissue.

ACADEMY NEWS

Kumar, Anil, International Centre for Genetic Engineering and Biotechnology, New Delhi.

He has made conceptual and experimental contributions leading to development of a potential hybrid vaccine for hepatitis and HIV based on use of T helper epitope with the designed peptides. The approach has also helped the development of a peptide-based diagnostic kit for HIV.

Mandal, Nibir, Department of Geology, Allahabad University, Allahabad.

He has done innovative experiments for understanding the processes of formation of boudinage and superposed buckle folding.

Manna, Indranil, Metallurgical Engineering Department, Indian Institute of Technology, Kharagpur.

He has made excellent contributions in discontinuous precipitation.

Mehta, Anuradha, School of Life Sciences, Jawaharlal Nehru University, New Delhi.

She has isolated a novel gene encoding oxalate decarboxylase.

Mukhopadhyay, Jayanta, Department of Electronics and Electrical Communication Engineering, Indian Institute of Technology, Kharagpur.

He has made outstanding contributions to 3D image processing.

Naik, Nishigandha Ramachandra, Cancer Research Institute, Tata Memorial Centre, Bombay.

She has made outstanding contributions to altered stimulation of actin mediated events in polymorphonuclear leucocytes from chronic myeloid leukemia patients.

Pandey, Siyaram, Centre for Cellular and Molecular Biology, Hyderabad.

He has elucidated the role of the nuclear localization signal present in karyophilic proteins which is essential for their transport into the nucleus.

Radhakrishnan, T. P., School of Chemistry, University of Hyderabad, Hyderabad.

He has contributed to the synthesis of novel organic conductors, exploration of organic ferromagnetism and partial ionicity in organic systems

Ramachandran, Hema Sankaran, High Pressure Physics Division, Bhabha Atomic Research Centre, Bombay.

She has done significant studies on pressure-induced amorphization and martensitic transitions.

Ramesh, D. S., National Geophysical Research Institute, Hyderabad.

He has contributed to a seismic tomographic experiment to illustrate structure of the Indian shield.

Tripathi, Renu (nee Bajpai), Division of Microbiology, Central Drug Research Institute, Lucknow.

She has made outstanding contributions on the development of Qinghaosu (Artemisinin derivative arteether) as a new antimalarial drug for treatment of complicated drug resistant *Falciparum* malaria cases.

MEETINGS/SYMPOSIA/SEMINARS

Conference on New Developments in Technology Studies: Evolutionary Economics and Chaos Theory

Place: Amsterdam, The Netherlands

Date: 6-8 May 1993

The aim of the conference is to discuss theoretical and empirical work in evolutionary models and chaos theory, and explore further lines of research. A more elaborate theme paper on the specific focus of 'self-organization as a theme for technology studies' is available on request.

Contact: Dr Loet Leydesdorff

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International Meeting on Chimie Douce: Soft Chemistry Routes to New Solids

Place: Nantes, France

Date: 6-10 September 1993

Topics include: acid-base chemistry, dry-extraction reactions, reactions in molten salts, grafting and pillaring, *in-situ* nanochemistry, exfoliation reactions and electrochemistry as a synthetic tool for new solids.

Contact: Dr J. Rouxel/Dr R. Brec/Dr M. Tournoux

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