

ANNEXURE - II

Title of Addresses of Sectional Presidents of 91st Session

Section	President	Title
<i>Agriculture and Forestry Sciences</i>	Dr. A. K. Singh	Agriculture Science in the Service of Society - A Paradigm Shift
<i>Animal, Veterinary and Fishery Sciences</i>	Prof. R. C. Sobti	Molecular Epidemiology in the Post Genomic Era: Single Nucleotide Polymorphisms (SNPs) as Biomarkers in Lung Cancer
<i>Anthropological and Behavioural Sciences (including Archaeology and Psychology & Educational Sciences)</i>	Prof. Ranjana Ray	Man and Culture in Eastern India : An Anthropological Study on Quality of Life Through Time
<i>Chemical Sciences</i>	Prof. Pahup Singh	An Account of Structural Studies on Natural Products
<i>Earth System Sciences</i>	Prof. S. S. Thigale	An Excursion Through the Watersheds from Konkan Coasts to Upland Western Maharashtra
<i>Engineering Sciences</i>	Mr. P. K. Raychaudhuri	Energy for 21st Century- Challenges & Opportunities
<i>Environmental Sciences</i>	Prof. J. S. Singh	Ecology and the Environment : Issues and Vision for India

Section	President	Title
<i>Information and Communication Science & Technology (including Computer Sciences)</i>	Dr. R. C. Tripathi	IPRs in ICT : Their National and Global Implications
<i>Materials Science</i>	Prof. K. A. Padmanabhan	Mechanical Behaviour of Metastable and High Defect Density Microstructure
<i>Mathematical Sciences (including Statistics)</i>	Dr. S. P. Arya	Mathematics & Society in the Twenty First Century: Quest for Excellence
<i>Medical Sciences (including Physiology)</i>	Prof. P. P. Venugopalan	S & T Policy, Health & Society
<i>New Biology (including Biochemistry, Biophysics and Molecular Biology and Biotechnology)</i>	Prof. C. Subramanyam	Potential Applications of Calcium Signaling in Agriculture and Human Health
<i>Physical Sciences</i>	Prof. Kehar Singh	Optical Techniques in Information Security
<i>Plant Sciences</i>	Prof. C. M. Govil	Mystery of Flower

Platinum Jubilee Lectures of 91st Session

Section	Speaker	Title
<i>Agriculture and Forestry Sciences</i>	Dr. S. Nagarajan New Delhi	Sustaining the Productivity of the Farming System in North Western India
<i>Animal, Veterinary and Fishery Sciences</i>	Not held	Not held
<i>Anthropological and Behavioural Sciences (including Archaeology and Psychology & Educational Sciences)</i>	Prof. Kisor K. Basa Bhubaneswar	Globalization and Cultural Heritage
<i>Chemical Sciences</i>	Dr. Ganesh Pandey Pune	Design, Synthesis and Evaluation of New Glycomimetics as Glycosidase Inhibitors
<i>Earth System Sciences</i>	Not held	Not held
<i>Engineering Sciences</i>	Dr. Sujay Basu Kolkata	Energy for Sustainable Development - Promise from the Wind
<i>Environmental Sciences</i>	Not held	Not held
<i>Information and Communication Science & Technology (including Computer Sciences)</i>	Dr. Utpal K. Banerjee New Delhi	Executive Computing : IT Management Interface

Section	Speaker	Title
<i>Materials Science</i>	Prof. M. S. Ananth Chennai	Fuel Cells for Portable Power in India
<i>Mathematical Sciences (including Statistics)</i>	Prof. Prem Narain Delhi	Mathematical and Statistical Challenges in Genomics
<i>Medical Sciences (including Physiology)</i>	Not held	Not held
<i>New Biology (including Biochemistry, Biophysics & Molecular Biology and Biotechnology)</i>	Prof. Samir Brahmachari New Delhi	Functional Genomics to System Biology : Integration of Information Technology to Biology
<i>Physical Sciences</i>	Prof. R. S. Sirohi Delhi	Speckle Metrology : Recent Advances
<i>Plant Sciences</i>	Dr. Rakesh Tuli Lucknow	Transgenic Plants

**Titles of Symposia on specialised topics
organised by the Sections of 91st Congress**

Section	Topic(s)
<i>Agriculture and Forestry Sciences</i>	Agriculture Forestry and Environmental Quality
<i>Animal, Veterinary and Fishery Sciences</i>	Dimystifying Disease Mechanism : Molecular and Biotechnological Approaches Molecular Systematics and Conservation of Biodiversity
<i>Anthropological and Behavioural Sciences (including Archaeology and Psychology & Educational Sciences)</i>	Assay of the Contributions of the Science of man to the Welfare of the Society Changing Frontiers of Anthropology, Psychology and Education in the Twenty First Century for Excellence in the Quality of Life in India
<i>Chemical Sciences</i>	Chemistry of Bioactive Agents Available for Nature : Future of Herbal Medicine Chemistry Scenario in India : Excellence and Accountability
<i>Earth System Sciences</i>	Earth Sciences and Society in the 21st Century : Quest for Excellence Recent Trends of Research in the Himalaya
<i>Engineering Sciences</i>	Sustainable Energy Development Challenges Ahead Engineering Challenges in Infrastructure Development

Section	Topic(s)
<i>Environmental Sciences</i>	Satellite Remote Sensing for Environmental Management Environment, Society and Quality of Life
<i>Information and Communication Science & Technology (including Computer Sciences)</i>	IT in Public Service : Quest for Excellence
<i>Materials Science</i>	Engineered Materials Nanostructured Materials
<i>Mathematical Sciences (including Statistics)</i>	On Recent Trends in Mechanics Recent Trends in Algebra and Number Theory
<i>Medical Sciences (including Physiology)</i>	Stress, Society and Health - A Perspective Immunisation - Tool to Secure A Healthy Society
<i>New Biology (including Biochemistry, Biophysics and Molecular Biology and Biotechnology)</i>	Cell Signaling and Health Care : Challenges in the 21st Century Challenges in Exploiting Plant and Microbial Growth for Societal Development
<i>Physical Sciences</i>	Optical Science and Technology for Quality of Life in the 21st Century
<i>Plant Sciences</i>	Reproduction in Plants Plants for Better Living

**Speakers of the Symposia/Invited Lectures/Special Lectures
organised by different Sections of 91st Congress**

Section & Speaker	Topic/Title
<i>Agriculture and Forestry Sciences</i>	Symposium on : Agriculture, Forestry and Environmental Security
	<i>Chair</i> : Dr. J. S. Samra
	<i>Rapporteur</i> : Dr. K. Das
Dr. J. S. Samra	Participatory Watershed Management for Sustainable Development of Natural Resources and Environmental Security
Dr. Brent M. Swallow	Strategies and Policies for Enhancing Agroforestry and Environmental Security
Dr. V. P. Singh	Agroforestry and Environmental Security in South Asia
	<i>Chair</i> : Dr. H. P. Sahi
	<i>Rapporteur</i> : Dr. V. Krishnamurthy
Dr. Gurbachan Singh	Agroforestry for Livelihood Security and Ecorestoration
Dr. P. S. Pathak	Agroforestry for Sustainable Agriculture
Dr. Bhoj Vaid	Forest Resources as a Means of Bioremediation
Dr. Alok K. Sikka	Challenge Program on Water and Food : An International Effort for Improving Water Productivity and Livelihood
Dr. Randhir Singh	A GIS Based Technique for Identification of Potential Agroforestry Areas in Yamunanagar District of Haryana

Section & Speaker	Topic/Title
<i>Agriculture and Forestry Sciences (contd.)</i>	
Dr. R. Rudrappan	Agricultural Employment Under Neo-Liberal Economic Paradigm
Dr. R. P. Singh	Water Resource Exploitation and its Environmental Consequences on Indian Agriculture <i>Chair</i> : Dr.R.P.Singh <i>Rapporteur</i> : Dr.A.K.Sahoo
Dr. B. S. Dahiya	Issues in Agriculture
Dr. V. S. Korikanthimath	Impact of Mining and Rehabilitation on Environment
Dr. K. A. Nayeem	Back Cross: A Tool for Wheat and other Crop's Improvement
Dr. H. N. Shahi	Sugarcane and Sugar Production in the Early 21st Century: Challenges and Strategies
Dr. S. K. Ghosh	Friendly Virus - A New Concept to Improve Productivity of Bast Fibre Crops
<i>Animal, Veterinary and Fishery Sciences</i>	Special Lecture <i>Chair</i> : Prof. L. R. Verma
Prof. S. K. Basu	The Quest for Quality of Life: The Holy Grail of Biology <i>Chair</i> : Prof.R.Ramamurthy Prof.K.C.Pandey <i>Rapporteur</i> : Prof.T.K.Gill
Prof.Awtar Krishan	Laser Flow Cytometry in Biomedical Research

Section & Speaker	Topic/Title
<i>Animal, Veterinary and Fishery Sciences (contd.)</i>	
Prof.N.S.Dhalla	Molecular Approaches for Understanding the Pathophysiology and Therapeutics of Congestive Heart Failure
Prof.R.C.Mahajan	Parasites and AIDS
	Symposium on : Demystifying Disease Mechanism : Molecular and Biotechnological Approaches – Trends in Cancer Research
	<i>Chair</i> : Prof.K.C.Pandey Prof.H.Katoh
Prof.P.N.Srivastva	Hopes and Disappointment in Cancer Therapy
Prof.M.Watanabe	Genetic and Epigenetic Basis for Carcinogenesis of the Prostate
Prof.H.Takahashi	Single Nucleotide Polymorphism(SNPs) and Cancer Risk
	<i>Chair</i> : Prof.M.Watanabe Prof.H.Takahashi Prof.Ram Parshad
Prof.S.K.Gupta	Design on Vaccines with Dual Efficacy
Prof.T.Katoh	Molecular Epidemiology and Cancer Susceptibility
Prof.Ram Parshad	Genetic Predisposition to Breast Cancer
	Symposium on :Molecular Systematics and Biodiversity Conservation
	<i>Chair</i> : Prof.B.S.Prakash Prof.B.N.Pandey
Prof. K.S.Rai	Recent Trends in Molecular Taxonomy

Section & Speaker	Topic/Title
<i>Animal, Veterinary and Fishery Sciences (contd.)</i>	
Prof.U.C.Goswami	Conversion of Carotenoids into Vitamin A is Affected by Xenobiotics, Drugs, Pesticides etc.
Prof.L.R.Verma	Strategies for Development of Beekeeping in India
Prof.B.N.Pandey	Biodiversity in India <i>Chair</i> : Prof. Ram Parshad Prof.S.K.Kulshrestha <i>Rapporteur</i> : Prof.S.Choudhary
Prof.A.P.Galhotra	Prevention of Rabies - A Dreaded Piller of Man and Animals
Prof.B.S.Prakash	Augmentation of Fertility in Dairy Livestock Through Endocrine Techniques
Prof.K.C.Pandey	Trematode Metacercariae of Indian Fishes
Prof.N.C.Datta	Biodiversity - Text, Context and Conflicts
Prof.H.R.Pajni	Mysteries of Species Category <i>Chair</i> : Prof.S.M.Handa, Prof.N.C.Datta, <i>Rapporteur</i> : Prof.C.L.Duggal
Prof.N.Agarwal	Indian Monogeneans
Prof.P.K.Mittal	Oxidative Stress and Role of Antioxidants in Male Germ Cells
Prof.(Mrs.)P.S.Jaswal	Wild Life Protection and the Legal Imperatives
Prof.M.S.Johal	Recent Innovations in Age Determination Using Hard Parts in Indian Freshwater Fishes

Section & Speaker	Topic/Title
<i>Animal, Veterinary and Fishery Sciences (contd.)</i>	
Prof.Veer Singh	Assisted Human Reproduction Technologies and their Legal Regulations and Control <i>Chair</i> : Prof.S.K.Taneja <i>Rapporteur</i> : Dr. S.K.Jain
Dr.V.K.Walia	Phenomenon of Intra-individual and Intra-specific Variations in Wing Venation of Super Family Papillionoidea (Dilrijsia: <i>Lepide Ptera</i>) Selectively Species Specific a New Concept
Dr.R.K.Singh	<i>In Vitro</i> Haematotoxicity Studies as an Alternative to <i>in vitro</i> Tests
Dr.G.S. Sobti	Physics and Science of Soil
Ms.Vandana Garg	Cadmium Induced Subcellular Changes in the NPO of <i>Heteropneustes fossilis</i>
Ms.Pooja Chadda	Vitamin C : A Genoprotective Agent Among Gutka, Consumers
<i>Anthropological and Behavioural Sciences (including Archaeology and Psychology & Educational Sciences)</i>	
Prof.A.S.Patel	Statistical Analysis of Qualitative Data in Social/ Behavioural Sciences
Prof.Kamlesh Mohan	Anthropology and Indian Society: The Colonial Experimentation in India
Dr.R.S.Balgir	Anthropology to the Human Betterment, Development and Public Welfare

Section & Speaker	Topic/Title
<i>Anthropological and Behavioural Sciences (including Archaeology and Psychology & Educational Sciences)(contd.)</i>	
Dr.K.K.Bagai	Age Changes in the Body Build and Composition among the Tibetan Immigrants Indian Scene
	Symposium on : Changing Frontiers of Anthropology, Psychology and Education in the 21st Century for Excellence in the Quality of Life in India
Dr.B.A.Parikh	Changing Frontiers of Psychology and Education in the 21st Century for the Excellence of Quality of Life in India
Prof.Vidhu Mohan	Application of Psychology for the Welfare of Society
Prof.Tehal Kohli	Portage Pathway : Successful Inclusive Preschool Teaching
Prof.Samvit S.Kaul	The Serious Non-Infectious Diseases in Human Populations and Westernization(Urbanization)
Prof.J.Mohan	Excellence in the Quality of Life in India : A Psychological Perspective
<i>Chemical Sciences</i>	Symposium on : Chemistry of Bioactive Agents Available from Nature: Future of Herbal Medicines
	<i>Chair</i> : Prof.Ramesh Kapur
	<i>Rapporteur</i> : Dr.A.P.Mishra

Section & Speaker	Topic/Title
Chemical Sciences (contd.)	
Dr.K.K.Bhutani	Future of Herbal Medicines : A Scientific Perspective
Dr.S.B.Mahato	Chemistry and Bioactivity of some Saponin Isolated from Commonly Available Plants Used in Indian Traditional Medicine
Dr.S.K.Arora	Development of Herbal Extract for the Treatment of Psoriasis
Dr.A.K.Indrayan	Medicinally Important Essential Oils from the Cones of <i>Juniperus cummunis</i> Linn and the Rhizome of <i>Alpinia officinarum</i> Hance
Dr.C.S.Mathela	Chemical, Biochemical and Chemotaxonomic Aspects of Some Himalayan Herbs
Prof.Nizam Uddin Khan	Search for Potential Artifilarial Herbs
Earth System Sciences	Symposium on : Earth Sciences and 21st Century - Quest for Excellence <i>Chair</i> : Prof. O.P.Verma
Dr.Seva Das	The Role of Medical Geology in Evaluation of Health Hazards in Developing Countries : A Review
Prof.Baleshwar Thakur	Water Supply and Thirst for Water in the Hill Towns of India
Dr.Hema Achuthan	New Trends in Understanding Soils and Soil Genesis
	Special Lecture
	<i>Chair</i> : Prof.P.K.Verma

Section & Speaker	Topic/Title
<i>Earth System Sciences (contd.)</i>	
Prof.Ashok Sahni	Origins of Biodiversity and the Evolution of Evolution : The Fossil Record
Prof.K.B.Powar	Lineament Fabric and Tectonic Interpretation
Prof.P.K.Verma	Travail of Ecogites During Subduction : The Himalayan Example
Prof.V.C.Thakur	Seismotectonics and Earthquake Hazard Assessment of Himalayan Region
Prof.H.D.Upadhyay	Phanerozoic vs. Pre-Phanerozoic Plate Tectonics : Is the Gap Closing ?
Mr.D.K.Chadha	The Problem of Water Logging in India - Issues and Remediation
<i>Engineering Sciences</i>	
	Symposia on : Sustainable Energy Development-Challenges Ahead <i>Chair</i> : Prof.Sujay Basu
V.Raghuraman	Moving India Towards a Sustainable Energy Future
G.K.Sharma	Sustainable Energy Development for India
Prof.Jagdish Singh	Energy Conservation in Refineries
	Symposium on : Engineering Challenges in Infrastructure Development
Ramadhar Jha	Electrical Energy as Infrastructure-Present Scenario and Future Need
N.B.Basu	Engineering Challenges in Infrastructure Development

Section & Speaker	Topic/Title
Environmental Sciences	Symposium on : Satellite Remote Sensing for Environmental Management
	<i>Convenor</i> : Dr.P.S.Roy
Dr.V.Jayaraman	Indian Earth Observation Strategy for Sustainable Environmental Management
Dr.A.Jayaraman	Satellite Remote Sensing for Aerosol and Atmospheric Chemistry Studies
Dr.V.K.Dadhwal	Remote Sensing of Agro-Ecosystems
Dr.S.Narendra Prasad	Satellite Remote Sensing Applications in Wetland Management & Conservation
Dr.P.S.Roy	Satellite Remote Sensing Application for Forest and Biodiversity
	Symposium on : Environment, Society and Quality of Life
	<i>Chair</i> : Dr.Govinder Singh
	<i>Convenor</i> : Dr.U.Dhar
Dr.Uma Melkania	Hill Environment, Societal Complexities, Quality of Life
Dr.B.L.Gajja	Impact of Environmental Degradation on Land Productivity, Poverty and Nutritional Status
Dr.U.Dhar	Hill Environment, Societal Complexities, Quality of Life
Dr.P.C.Pandey	India's Contributions to Antarctic Science and its Global Relevance
Sri Sunder Lal Bahguna	Jal Sankat : Samasya aur Samadhan

Section & Speaker	Topic/Title
<i>Information and Communication Science & Technology (including Computer Sciences)</i>	Symposium on : IT in Public Service : Quest for Excellence
Dr.Rattan K. Datta	From Data Processing to Knowledge Management - A Paradigm Shift
Dr.Moni	Information Needs of Indian Public and the NIC-NET
Dr.S.S.Agarwal	Indian IT Achievements and Prospects for Mitigating the Language Barriers Problems in India and Abroad
Shri R.S.Tyagi	Human-Needs and IT Advance and Prospects for India
Shri R.K.Verma	Needs of Global Trade and Advancement in Indian ICT for its Effective Utilization
Ms.J.R.D.Kailey	Advances in IT Enabled Smart Corporate Services
<i>Materials Science</i>	Symposium on : Engineered Materials
	<i>Chair</i> : Dr.M.J.Zarabi
Prof.Ashok Misra	Engineering Polymers as a Functional Material
Dr.S.P.Mehrotra	Functionally Enhanced Tailored Materials
Prof.S.Narayanan	Smart Materials in Vibration and Noise Control
Dr.G.Malakondaiah	Ultrahigh Strength Low-Alloy Steel DMR - 1700 : Laboratory Scale Development to Engineered Products
Dr.K.Balasubramanian	Functionally Graded Materials

Section & Speaker	Topic/Title
Materials Science (contd.)	
Symposium on: Nano-Structured Materials	
<i>Chair</i> : Dr.Horst Hahn Dr.D.N.Singh	
Dr.G.Sundararajan	Evaluation of Mechanical Properties of Thin Films Utilizing the Nanoindentation Technique
Prof.Indranil Manna	Characterisation of Al-based Nanocrystalline and Amorphous Alloys Synthesized by Mechanical Alloying
Dr.Pradip	Colloidal Processing of Alumina - Zirconia Composites
Prof.R.C.Budhani	Electronic Phase Separation and Growth of Metallic and Magnetic Nanocrystals in Doped Oxides
Prof.Ashutosh Sharma	Self-Organised Patterns in Thin Soft Films
Dr.Lalit M. Bharadwaj	Bio Molecular Engineering for Electronics and Medical Applications
Dr.Neeraj Khare	Investigation of Grain Boundary Transport in Doped Rare Earth Magnetite Using Artificial Grain Boundary in La _{0.33} MnO ₃ thin film
Mathematical Sciences (including Statistics)	
Symposium on : On Recent Trends in Mechanics	
<i>Chair</i> : Prof.Sarva Jit Singh	
Prof.Sarva Jit Singh	Elastic Waves in Fibre- Reinforced Anisotropin Media

Section & Speaker	Topic/Title
Mathematical Sciences (including Statistics) (contd.)	
Dr.M.D.Sharma	Anisotropic Wave Propagation
Dr.Maithili Sharan	Recent Trends in Bio-fluid Mechanics with a Special Reference to Gas Transport
Symposium on : Recent Trends in Algebra and Number Theory	
<i>Chair</i> : Prof.R.P.Bambah	
Prof.I.B.S.Passi	Hyperbolic Groups
Prof.R.J.Hansgill	Minkowski's Theorem and Some Related Results
Prof.V.C.Dumir	View Obstruction Problems and their Generalizations
Prof.J.B.Srivstava	Associated Lie Algebras of Group Algebras
Prof.S.K.Khanduja	Some Generalizations of the Irreducibility Criteria of Eisenstein and Ehrenfecht
Prof.A.K.Agarwal	Ramanujan, MacMahon and Partition Theory
Prof.Harshinder Singh	Stochastic Modelling and Entropy Estimation of Random Fluctuations in Molecules
Dr.Amar Nath Gill	A Multiple Three Decision Procedures
Prof. Sunder Lal	Some ID Based Signature Encryption Schemes
Prof.S.C.Arora	On Slant Toeplitz Operators

Section & Speaker	Topic/Title
Mathematical Sciences (including Statistics) (contd.)	
Prof.Ajit Iqbal Singh	Geometry of the Range of a Non-atomic Vector measure and Cake Cutting
Dr.Vivek Sahai	Models of q-Representations of the Lie-Algebra $SL(2,C)$ and q-Mellin Integral Transformation
Medical Sciences (including Physiology)	
Symposium on : Stress, Society and Health A Perspective	
<i>Chair</i> : Dr.B.S.Sajjan	
Dr.Amar K.Chandra	<i>In Vitro</i> antithyroidal Activity of Certain Selective Cyanogenic Plant Foods of Indian Origin
Dr.Uma Roy	Evaluation of Stress-coping Activities of Indian Herb <i>Withania somnifera</i> (Aswagandha) a Pharmaco-Chemical Study
Dr.S.K.Kulkarni	Chronic fatigue (stress) and Oxidative Stress
Dr.P.K.Banerjee	Physiological Appraisal of Performance Under Extreme Stress Environment in Defence Operations
Symposium on : Immunization - A Tool to Secure a Healthy Society	
<i>Chair</i> : Dr.S.K.Kulkarni	
Dr.P.P.Venugopalan	Historical Background and Evolution
Dr.B.S.Sajjan	National Immunization Programme and How it Serves the Society

Section & Speaker	Topic/Title
Medical Sciences (including Physiology) (contd.)	
Special Invited Lecture	
<i>Chair</i> : Dr.P.P.Venugopalan	
Prof.Debjani Guha	Neurodegeneration & Neuro-protection
Dr.Sujit Bhattacharya	Recent Advances in the Treatment of Kalazar
New Biology (including Biochemistry, Biophysics & Molecular Biology and Biotechnology)	
A Special Symposium on Cancer Biology	
<i>Chair</i> : Prof.S.Pentyala	
Prof.S.Pentyala	Challenges & Opportunities in Taking the Next Step from Biochemistry to Biotechnology in Cancer Biology
Prof.G.Premveer Reddy	Role of Androgen Receptor and Calmodulin in Prostate Cancer Cell Cycle Progression from G1 to S Phase
Dr.Manju Ray	Methylglyoxal: From a Putative Intermediate of Glucose Breakdown to its Role as a Potential Anticancer Agent
Prof.Samaresh Mukherjee	Spectroscopic Studies on the Intermolecular Interaction between Methyl glyoxal & few Biomolecules in Relation to their Anticancer Properties

Section & Speaker	Topic/Title
<i>New Biology (including Biochemistry, Biophysics & Molecular Biology and Biotechnology) (contd.)</i>	Symposium on : Cell Signaling and Health Care Challenges in the 21st Century
	<i>Chair</i> : Prof.K.L.Khanduja
Prof.K.L.Khanduja	Molecular Targets for Oxidative Stress in Health and Disease
Prof.G.K.Khullar	Calcium Calmodulin Mediated Signal Transduction Cascade regulating Phospholipid Synthesis in <i>Candida albicans</i>
Prof.Shelly Bhattacharya	Transduction of Xenobiotic Signals
Dr.Shyamal Goswami	Reactive Oxygen Species in Cardiac Hypertrophy & Apoptosis: Looking for a Sensor
Dr.P.R.Sudhakaran	Cell Matrix Interactions and Vascular Lesions
Dr.Girish Sahni	Activation of Blood Plasminogen by the Clotdissolver Drug, Streptokinase: New Mechanistic Insights
Dr.Shibsankar Roy	Characterization of Two Differentially Expressed Gene Families from Hypothyroid Rat: Their Role in Reproductive Disorders
Prof.N.K.Mehra	Human MHC: New Challenges in Biology and Medicine
	Symposium on: Challenges in Exploiting Plant and Microbial Growth for Societal Development
	<i>Chair</i> : Dr.Deepak Bhatnagar

Section & Speaker	Topic/Title
<i>New Biology (including Biochemistry, Biophysics & Molecular Biology and Biotechnology) (contd.)</i>	
Dr.D.Bhatnagar	Genomics of <i>Aspergillus</i> for Controlling Harmful Toxins and Harnessing Beneficial Metabolites
Prof.A.S.Raghavendra	Optimization of Photosynthesis in Chloroplasts by Mitochondrial Oxidative Metabolism
Dr.Sudip Chattopadhyay	Zbf1, a bHLH Protein that Specifically Interacts with the Z box and is Involved in Light Mediated Early Seedling Development in <i>Arabidopsis thaliana</i>
Dr.Anand Tyagi	Meiotic Analysis of <i>Arabidopsis thaliana</i> and <i>A.arenosa</i> Allopolyploids
Prof.J.P.Khurana	From Structural to Functional Genomics Functional Analysis of Transcription Factors Involved in Regulating Development in Rice (<i>Oryza sativa indica</i>)
Prof.S.Dayanand	Molecular Analysis of Organophosphate(op) Pesticide Degradation in <i>Flavobacterium balustinum</i> : Genetic Engineering Strategies to Control of Pesticide Pollution in Environment
Prof.B.Sashidhar Rao	Gum kondagogu: A Natural Product with Immense Potential
Prof.T.Satyanarayana	Thermophilic Microbial Amylaes in Developing an Ideal Starch-Hydrolyzing Process
Dr.Sujata Ghosh	Role of Microbial Lectins in Enteric Infections

Section & Speaker	Topic/Title
Physical Sciences	
Symposium on : Optical Science and Technology for Quality of Life in the 21st Century	
Dr.P.K.Gupta	<i>Chair</i> : Prof.Swapan K.Saha Optical Diagnosis and Therapy for Improved Health Care
Prof.V.N.Mahajan Dr.Swapan K. Saha	<i>Chair</i> : Dr.R.S.Sirohi Imaging through Atmosphere Astronomical Imaging by Employing Optical Interferometry: The Future
Prof.H.C.Kandpal	<i>Chair</i> : Prof.V.K.Rastogi Laboratory Experiments Revealing Non-Doppler Redshifts with Possible Cosmological Applications
Dr.A.Ghosh	Heavy Metal Glasses with a Large Transmitting Window and their Structure <i>Chair</i> : Prof.T.S.Cheema
Dr.A.K.Gupta	Photonics Correlators and its Applications
Dr.R.P.Singh	Nanotechnology - A Small Word with a Big Future
Prof.R.S.Kasana	Scope of the Interferometric Vertometers in the Fields of Optical Science and Technology
Plant Sciences	
Symposium on : Reproduction in Plants	
Prof.Pramod Tandon	<i>Chair</i> : Prof.S.P.Vij Prof.S.V.S.Chauhan Improvement of Conifers Through Clonal Propagation

Section & Speaker	Topic/Title
<i>Plant Sciences (contd.)</i>	
Dr.S.K.Chaturvedi	Modes of Pollination in Some Indigenous of Nagaland
Dr.U.C.Lavania	Developmental Chromosome Sorting and Reproductive Fitness
Prof.Y.Vimala	Physiochemical Aspects of Post-Reproductive Phase-Transition
Dr.(Mrs.) G.S.Kurian	Organic formulation for Effective Growth and yield Vegetables
Symposium on : Plants for Better Living	
<i>Chair</i> : Prof.S.V.S.Chauhan	
Dr. (Mrs.) Usha Mukundan	Studies on <i>Aloe vera</i> L.and <i>Withania somnifera</i> (L) Dunal
Dr. (Ms.) Bhanu Verma	Tissue Culture and Plant Propagation - Present Scope and Limitations
Dr. (Mrs.) Namrata Sharma	<i>In-situ</i> pollen Germination-Phenomenon and Implications
Prof.N.Anand	Cyanobacterial biofertilizers
Prof.P.C.Sharma	Virus Induced Gene Silencing as a Tool in Reverse Genetics Analysis of Gene Function in Plants
Prof.O.P.Saxena	Evaluation of Bioactive Compounds from Certain Medicinal Plants for the Welfare of Mankind
Prof.S.V.S.Chauhan	Role of Simple Phenolics and Boron in the Reproductive Success in Some Seedless and Seedbearing Bignoniaceae

List of Young Scientist Awardees for 2003-2004

Section	Name of the Awardee(s)	Title of Paper(s)
<i>Agriculture and Forestry Sciences</i>	Rojalin Tripathy Water Technology Centre Indian Agril. Research Institute New Delhi-110012.	Impact of Integrated Nutrient and Water Management on Soil Physical Properties and Carbon Enrichment in Rice - Wheat Cropping System.
	Rhitu Rai NRC on Plant Biotechnology, IARI New Delhi-110012.	Bacterial Endophytes : An Alternative Genome for Crop Improvement.
<i>Animal, Veterinary and Fishery Sciences</i>	Saurav Guha DNA Typing Unit Central Forensic Science Laboratory 30, Gorachand Road Kolkata-700014.	Unique Two-step Mitochondrial 16sr RNA Gene Targeted PCR Assays for Identification of Endangered <i>Bovidae</i> Species.
	Monika Bhadauria UGC-SAP School of Studies in Zoology, DST-FIST Supported Deptt., Jiwaji University Gwalior-474011.	Ameliorative Effects of Potent Natural Products Against Liver Injury.
<i>Anthropological and Behavioural Sciences (including Archaeology and Psychology & Educational Sciences)</i>	Ashish Mukhopadhyay Vidyasagar University Midnapore (W. B.).	Nutritional Status of Adolescent Bengalee Boys of Nimta, North 24-Parganas, W.B.

Section	Name of the Awardee(s)	Title of Paper(s)
Anthropological and Behavioural Sciences (including Archaeology and Psychology & Educational Sciences (contd.))	Diptendu Chatterjee Deptt. of Anthropology University of Calcutta 35, Ballygunge Circular Rd., Kolkata-700019.	A Study on Segregation Distortion of ABO Blood Groups in the Bengalee Population.
	Soumya Srivastava Deptt. of Chemistry University of Allahabad Allahabad-211002.	Quantitative Structure Activity Relationship Study of Pyrazole Ligands Binding to Estrogen Receptor -a-Selective Agonists.
Chemical Sciences	Summon Koul Deptt. of Chemistry University of Jammu (New Campus) Ambedkar Road, Jammu-180001.	Genicunolide - A to - E : Five New Triterpenoids from <i>Euphorbia geniculata</i>
	Abhijit Mazumder Geological Oceanography National Institute of Oceanography, Dona Paula Goa-403004.	A Note on Benthic Foraminiferal Testimony to Late Pleistocene Holocene Coral Reef and Sea Level Rise along Central West Coast of India.
Earth System Sciences	Shashi Kad CAS in Geology Panjab University Chandigarh-160014.	Faunal Affinities, Age Implications & Subathu Murree Bopoundary Transition : Evidence from Miocene Vertebrates Himalayan Foreland Basin.

Section	Name of the Awardee(s)	Title of Paper(s)
Engineering Sciences	Subarna Maiti School of Energy Studies Jadavpur University Kolkata-700032.	Development of Electronic Grade Carbon from Biomass Char.
Environmental Sciences	Shritapa Datta Biochemical Adaptation Lab., Department of Zoology, North-Eastern Hill University, Shillong-793022.	Role of Ureogenesis in Tackling Problems of Ammonia Toxicity During Exposure to Higher Ambient Ammonia in the Air- Breathing Walking Catfish <i>Clarias Batrahus</i> .
	Harminder Pal Singh Centre for Vocational and Environmental Studies, Deptt. of Botany Panjab University Chandigarh-160014.	Phytotoxicity of some Monoterpenes against Barnyard Grass (<i>Echinochloa-crus-galli</i> L) and their Potential Use as Bioherbicides.
Information and Communication Science & Technology (including Computer Sciences)	C.Vasantha Lakshmi Deptt. of Physics and Computer Science Dayalbagh Educational Institute, Agra.	OCR of Printed Telugu Text with Multiple Fonts and Sizes.
Materials Science	Amreesh Chandra School of Materials Science and Technology Instt. of Technology B.H.U., Varanasi-221005.	Discovery of New Phase Transitions in Mixed (Pb,Ca) TiO Ferroelectric System: A New Phase Diagram.

Section	Name of the Awardee(s)	Title of Paper(s)
Mathematical Sciences <i>(including Statistics)</i>	N. D. Baruah Deptt. of Mathematical Sciences, Tezpur Univ., Napaam-784028.	Some New Explicit Values of Ramanujan's Continued Fractions.
	Amrit Pal Singh Deptt. of Mathematics Panjab University Chandigarh-160014.	An Analogue of a Theorem of Kaplansky for Defectless Valued Fields.
Medical Sciences <i>(including Physiology)</i>	Bhupesh K. Prusty Divn. of Molecular Oncology, Instt. of Cytology & Preventive Oncology (ICMR) Maulana Azad Medical College Campus , Delhi.	Severe Liver Damage and High Mortality in Hepatitis E Virus Infected Pregnant Women Lacks p65 Component of NF-kB.
New Biology <i>(including Biochemistry, Biophysics & Molecular Biology and Biotechnology)</i>	Shalmoli Bhattacharyya Deptt. of Experimental Medicine and Biotechnology PGIME&R, Chandigarh-160012.	Cross-talk Induced by WO7 -toxin in Mice Enterocytes.
	Sanghamitra Sahoo DNA Typing Unit Central Forensic Science Laboratory 30, Gorachand Road, Kolkata-700014.	A Novel Single Tube Fluorescent Multiplex Assay for Simultaneous Typing of 18 Y-STR Loci.

Section	Name of the Awardee(s)	Title of Paper(s)
Physical Sciences	Smrutisikha Bal Deptt. of Physics, NIT Rourkela-769008.	Structural Investigation of Normal and Treated Polyester Fibers by Saxs and other Techniques.
	Parag Sharma Deptt. of Physics and Computer Science, Dayalbagh Educational Instt., Agra-282005.	Design of Low Power All-Optical Combinational Logic Devices with Rhodopsin Proteins.
Plant Sciences	Kathirvel Elango Centre for Advanced Studies in Botany University of Madras Guindy Campus Chennai-600025.	<i>OfoI</i> - A Type II Restriction Endonuclease from <i>Oscillatoria foreaui</i> .
	Sharda W. Khade Deptt. of Botany Goa University Taleigao Plateau Goa-403206.	Ecology of <i>Arbuscular Mycorrhizal</i> Fungi {AM} Associated with <i>Carica Papaya</i> L in Agro-Based Ecosystem of Goa.

**List of Awardees judged as best poster presented
during the 91st Indian Science Congress-2004**

Name of the Sections	Name of the Awardees
<i>Agriculture and Forestry Sciences</i>	Poonam Instt. of Himalyan Bioresource Technology Palanpur. M.L.Shanti MAHYCO Research Foundation Hyderabad.
<i>Animal Veterinary and Fishery Sciences</i>	Upama Bagai Panjab University Chandigarh. U.S.Pati I.V.R.I. Palampur (H.P.).
<i>Anthropological and Behavioural Sciences (including Archaeology and Psychology & Educational Sciences)</i>	P.R.Chauhan Department of Geology Panjab University Chandigarh. Debdulal Dutta Roy Psychological Research Unit ISI, Kolkata.

Name of the Sections	Name of the Awardees
<i>Chemical Sciences</i>	Shipra Srivastava Dept. of Chemistry Lucknow University Lucknow. Lata Tiwari Deptt. of Chemistry Dr. H.S.Gour University Saugar.
<i>Earth System Sciences</i>	Bhavana N. Umrikar Department of Geology University of Pune Pune. Deepak B. Malpe Department of Geology Shivaji Science College Nagpur.
<i>Engineering Sciences</i>	R.M.Banik School of Biochemical Engineering Institute of Technology BHU, Varanasi Subart Borgohain Gogoi Deptt. of Petroleum Technology Dibrugarh University Dibrugarh, Assam
<i>Environmental Sciences</i>	S. Usha Department of Chemistry Madras Christian College Chennai.

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<i>Environmental Sciences (contd.)</i>	<p>Gaurav Sharma Center of Environmental Sciences & Vocational Studies Panjab University Chandigarh.</p>
<i>Information and Communication Science & Technology (including Computer Sciences)</i>	<p>Jyoti Rattan Department of Law Punjab University Chandigarh.</p> <p>Ajay Sood IBM Global Services India Bangalore.</p>
<i>Materials Science</i>	<p>Gaurav Verma Department of Chemical Technology Sant Longowal Institute of Engineering & Technology Sangrur.</p> <p>P.S.Chikalikar Department of Physics Government Vidharbha Institute of Science & Humanities Amravati.</p>
<i>Mathematical Sciences (including Statistics)</i>	<p>Anuradha Sharma Panjab University Chandigarh.</p> <p>Prajneshu IASRI New Delhi</p>

Name of the Sections	Name of the Awardees
<i>Medical Sciences (including Physiology)</i>	<p>Aman Trehan UIPS Panjab University, Chandigarh.</p> <p>Sudarshana Purakayastha Department of Physiology Neuro Physiology Lab. Calcutta University, Kolkata</p>
<i>New Biology (including Biochemistry Biophysics & Molecular Biology and Biotechnology)</i>	<p>K. Satish Kumar Department of Biochemistry Osmania University Hyderabad.</p> <p>Rohit Sharma Department of Biotechnology NIPER, Mohali, Chandigarh.</p>
<i>Physical Sciences</i>	<p>R. Udaya Kumar Department of Physics Annamalai University, Tamil Nadu.</p> <p>Ajay Kumar Department Physics Panjab University, Chandigarh.</p>
<i>Plant Sciences</i>	<p>Sampat Nehra University of Rajasthan Jaipur.</p> <p>Anita Mohan Department of Botany CCS University Meerut.</p>

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