

COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, INDIA

SHANTI SWARUP BHATNAGAR PRIZE

FOR

SCIENCE AND TECHNOLOGY

2007

CITATION

Dr Narayanaswamy Srinivasan

The Shanti Swarup Bhatnagar Prize for the year 2007 in Biological Sciences has been awarded to Dr Narayanaswamy Srinivasan of the Indian Institute of Science, Bangalore. Dr Srinivasan has made outstanding contributions in the area of computational genomics, protein structure analysis, modeling and computational studies on proteins that are involved in cellular signal transduction pathways. His studies at the whole genome level have helped to identify remotely similar proteins sharing structural and functional features.

(Manmohan Singh)

President

Council of Scientific & Industrial Research &
Prime Minister of India

(Samir K Brahmachari)

Director General

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New Delhi
20 December 2008

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CITATION

Dr Upinder Singh Bhalla

The Shanti Swarup Bhatnagar Prize for the year 2007 in Biological Sciences has been awarded to Dr Upinder Singh Bhalla of the National Centre for Biological Sciences (TIFR), Bangalore. Dr Bhalla has made outstanding contributions in computational and experimental approaches to understanding neuronal and Synaptic signaling in memory and in coding of olfactory information.

(Manmohan Singh)

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Dr Amalendu Chandra

The Shanti Swarup Bhatnagar Prize for the year 2007 in Chemical Sciences has been awarded to Dr Amalendu Chandra of the Indian Institute of Technology, Kanpur. Dr Chandra has made pioneering contributions to microscopic theories and simulations of liquids, interface and clusters, leading to definitive predictions borne out by experimentation.

(Manmohan Singh)

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Dr A Ajayaghosh

The Shanti Swarup Bhatnagar Prize for the year 2007 in Chemical Sciences has been awarded to Dr A Ajayaghosh of the National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram. Dr Ajayaghosh made significant contributions in supramolecular assemblies and light induced sensor systems.

(Manmohan Singh)

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Dr Anil Bhardwaj

The Shanti Swarup Bhatnagar Prize for the year 2007 in Earth Sciences has been awarded to Dr Anil Bhardwaj of the Vikram Sarabhai Space Centre, Thiruvananthapuram. Dr Bhardwaj made fundamental contributions and creative ideas to elucidate X-Ray emissions from planetary bodies including auroras and advancing its subsequent enrichment and futuristic potential by attracting international collaboration.

(Manmohan Singh)

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Dr Rama Govindarajan

The Shanti Swarup Bhatnagar Prize for the year 2007 in Engineering Sciences has been awarded to Dr Rama Govindarajan of the Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore. Dr Govindarajan has made original contributions to the understanding of instabilities in shear and non-parallel flows, flow entrainment, turbulent transition and small-scale hydraulic jumps.

(Manmohan Singh)

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Dr Budaraju Srinivasa Murty

The Shanti Swarup Bhatnagar Prize for the year 2007 in Engineering Sciences has been awarded to Dr Budaraju Srinivasa Murty of the Indian Institute of Technology Madras, Chennai. Dr Murty has made original contributions in synthesizing nano materials by mechanical alloying and in the synthesis and nanocrystallization of bulk metallic glasses.

(Manmohan Singh)

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Dr B V Rajarama Bhat

The Shanti Swarup Bhatnagar Prize for the year 2007 in Mathematical Sciences has been awarded to Dr B V Rajarama Bhat of the Indian Statistical Institute, Bangalore. Dr Bhat has made outstanding contributions to quantum stochastic calculus, minimal dilations of quantum dynamical semi groups, theory of product systems and E° – semi groups.

(Manmohan Singh)

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Dr Pundi Narasimhan Rangarajan

The Shanti Swarup Bhatnagar Prize for the year 2007 in Medical Sciences has been awarded to Dr Pundi Narasimhan Rangarajan of the Indian Institute of Science, Bangalore. Dr Rangarajan has made outstanding contributions towards understanding gene expression changes induced by neurotropic viruses as well as DNA vaccine development.

(Manmohan Singh)

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Dr Yashwant Gupta

The Shanti Swarup Bhatnagar Prize for the year 2007 in Physical Sciences has been awarded to Dr Yashwant Gupta of the National Centre for Radio Astrophysics, Pune. Dr Gupta has made novel observations of pulsars leading to new interpretation of these enigmatic objects. He has made a vital contribution to the highly complex digital correlation system of Giant Metrewave Radio Telescope (GMRT) near Pune.

(Manmohan Singh)

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CITATION

Dr Pinaki Majumdar

The Shanti Swarup Bhatnagar Prize for the year 2007 in Physical Sciences has been awarded to Dr Pinaki Majumdar of the Harish-Chandra Research Institute, Kolkata. Dr Majumdar has made outstanding contributions in the area of strongly correlated systems in the presence of disorder, leading to definitive understanding of metal- insulator transition, nanoscale texture formation and colossal response driven by external fields.

(Manmohan Singh)

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Dr Gajendra Pal Singh Raghava

The Shanti Swarup Bhatnagar Prize for the year 2008 in Biological Sciences has been awarded to Dr Gajendra Pal Singh Raghava of the Institute of Microbial Technology (CSIR), Chandigarh. Dr Raghava contributed significantly in the field of bioinformatics, particularly in the searching of potential drug and vaccine targets.

(Manmohan Singh)

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CITATION

Dr L S Shashidhara

The Shanti Swarup Bhatnagar Prize for the year 2008 in Biological Sciences has been awarded to Dr L S Shashidhara of the Centre for Cellular & Molecular Biology (CSIR), Hyderabad. Dr Shashidhara has made outstanding contributions to the understanding of appendage development in animals. His studies on the underlying molecular pathways have important implications in deciphering growth control and cancer.

(Manmohan Singh)

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CITATION

Dr Pradeep Thalappil

The Shanti Swarup Bhatnagar Prize for the year 2008 in Chemical Sciences has been awarded to Dr Pradeep Thalappil of the Indian Institute of Technology Madras, Chennai. Dr Thalappil made significant contributions to the area of molecular and nanoscale materials, with special focus on metal nanoparticles.

(Manmohan Singh)

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CITATION

Dr Jarugu Narasimha Moorthy

The Shanti Swarup Bhatnagar Prize for the year 2008 in Chemical Sciences has been awarded to Dr Jarugu Narasimha Moorthy of the Indian Institute of Technology, Kanpur. Dr Moorthy made significant contributions in physical organic chemistry towards understanding the photoreactivity and organization of organic molecules.

(Manmohan Singh)

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Dr P N Vinayachandran

The Shanti Swarup Bhatnagar Prize for the year 2008 in Earth, Atmosphere, Ocean and Planetary Sciences has been awarded to Dr P N Vinayachandran of the Indian Institute of Science, Bangalore. Dr Vinayachandran made outstanding contributions to the physical oceanography of the Indian Ocean and its role in air-sea interaction and biological processes.

(Manmohan Singh)

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Dr Ranjan Kumar Mallik

The Shanti Swarup Bhatnagar Prize for the year 2008 in Engineering Sciences has been awarded to Dr Ranjan Kumar Mallik of the Indian Institute of Technology, Delhi. Dr Mallik has made seminal contributions to the performance analysis of multiple-input multi-output systems, characterization of fading channel statistics, and error analysis under correlated fading conditions.

(Manmohan Singh)

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Dr Jaikumar Radhakrishnan

The Shanti Swarup Bhatnagar Prize for the year 2008 in Mathematical Sciences has been awarded to Dr Jaikumar Radhakrishnan of the Tata Institute of Fundamental Research, Mumbai. Dr Radhakrishnan has made fundamental contributions to the theory of lower bounds in general, and to quantum information theory and communication complexity in particular.

(Manmohan Singh)

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Dr Ravinder Goswami

The Shanti Swarup Bhatnagar Prize for the year 2008 in Medical Sciences has been awarded to Dr Ravinder Goswami of the All India Institute of Medical Sciences, New Delhi. Dr Ravinder Goswami is recognized for his significant contributions in the field of clinical endocrinology with particular reference to hypocalcaemic disorders. His research work has documented the prevalence, significance and causes of vitamin D deficiency in apparently healthy individuals for the first time in India. His work on sporadic idiopathic hypoparathyroidism has provided valuable information on the etiopathogenesis and clinical feature of this disorder as seen in our country.

(Manmohan Singh)

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Dr Raghunathan Srianand

The Shanti Swarup Bhatnagar Prize for the year 2008 in Physical Sciences has been awarded to Dr Raghunathan Srianand of the Inter-University Centre for Astronomy and Astrophysics, Pune. Dr Srianand made outstanding contributions in obtaining information on redshift evolution on the cosmic microwave background radiation and establishing bounds on the variation of fundamental constants using the absorption line spectra of quasars.

(Manmohan Singh)

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CITATION

Dr Srikanth Sastry

The Shanti Swarup Bhatnagar Prize for the year 2008 in Physical Sciences has been awarded to Dr Srikanth Sastry of the Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore. Dr Sastry's work has had an impact on the theoretical understanding of glass-forming liquids and conditions under which materials end up in structurally arrested states. His work on glass forming ability of materials has lead to the experimental breakthrough of making a monoatomic metallic glass by vitrifying germanium. He has established a novel liquid-liquid transition in supercooled silicon and shown it to be a metal to non-metal transition.

(Manmohan Singh)

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