

## ACADEMY NEWS

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**Sarkar, Anindya**, Physical Research Laboratory, Ahmedabad



His research work is in the fields of quantitative palaeoclimatology (oceanography), stable isotope geochemistry (mass spectrometry) using marine and land sediments, and geochronology of

ocean sediments using various radioactive isotopes.

**Singh, Sukh Mahendra**, Banaras Hindu University, Varanasi



His studies on the modulation of the cellular immune response by cisplatin

and related studies have significantly contributed to the understanding of mobilization of cellular immune response against neoplastic cells by biological response modifiers.

**Venkataramana, Tyakal Nanjundiah**, Tata Institute of Fundamental Research, Bombay

He works in the field of discrete subgroups of Lie groups. He was awarded the INSA medal for significant work on rigidity and arithmeticity of discrete subgroups.

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## Associates 1990, Indian Academy of Sciences

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**Chattaraj, Pratim Kumar**, Indian Institute of Technology, Kharagpur



He has made original contributions in theoretical chemistry in the field of density-based quantum mechanics of many-fermion systems and in nonlinear dynamics. He is also an awardee of the INSA Medal for Young Scientists for 1990.

**Cherayil, B. J.**, Indian Institute of Science, Bangalore



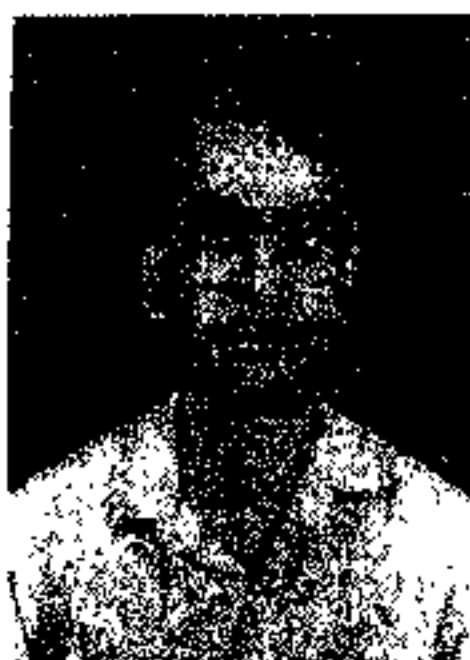
He has been involved in work on the statistical mechanics of polymers.

**Krishnan, N.**, Tata Institute of Fundamental Research, Bombay



He works in the general field of experimental gravitation. Over the previous few years he has been engaged in a search for a possible fifth force, weaker than gravity by at least four orders of magnitude.

**Patel, A. D.**, Indian Institute of Science, Bangalore



His work is in theoretical high-energy physics. His fields of specialization

include lattice gauge theories and statistical physics.

**Radhakrishnan, T. P.**, University of Hyderabad, Hyderabad



His primary research interest is in the area of low-dimensional organic solid state. He is especially involved in the electrical and magnetic properties of novel charge-transfer solids. His other interests include theoretical chemistry and chemical graph theory.

**Ray, Debashis**, Indian Association for the Cultivation of Science, Calcutta



His research contributions are in syn-

thesis, structure and reactions of transition-metal compounds, and in bioinorganic chemistry. He is interested in model studies of bioinorganic aspects of transition-metal oxidation states.

**Saluja, Daman**, University of Delhi, Delhi



She has been involved in the general areas of biochemistry and plant molecular biology. Her research contributions are in the specific fields of control of gene expression in plant cells and the regulatory role of phosphorylation in enzyme regulation in plant cells.

**Subrahmanyam, Ravi**, Radio Astronomy Centre, Udhagamandalam (Ooty)

He has done theoretical work on the formation of galaxies and large-scale

structure in the universe and an experimental investigation on the distribution of neutral hydrogen at high redshifts.

**Vijayaraghavan, Usha**, Indian Institute of Science, Bangalore

She has cloned and sequenced the gene for one of the isoacceptors for leucine tRNA. She has worked on the molecular-genetic aspects of flower development in the plant *Arabidopsis thaliana*. She plans to conduct a genetic screen for new mutants that affect floral morphogenesis.