

# INSA elects new fellows 1991

**Banerjee, Kalyan**, National Institute of Virology, Pune



He has made significant contributions to medical virology, including the discovery of three new arboviruses, genetic markers, culture and assay procedures for dengue virus, and development and chemical evaluation of a vaccine against Kyasanur forest disease virus

**Chaudhuri, Mihir K.**, North-Eastern Hill University, Shillong



His research interests are synthesis, structural evaluation and investigation of reactivity of fluoro and peroxo compounds of metals and non-metals, and acetylacetonato complexes of metals. He is also involved in developing new reagents and in the mass spectrometry of metal compounds.

**Das, Hirendra Kumar**, Jawaharlal Nehru University, New Delhi

He has provided evidence for three pathways of nitrogen fixation in *Azotobacter vinelandii* and demonstrated the role of superhelical DNA in regulation of nitrogen fixation.

**Gupta, Alok K.**, University of Allahabad, Allahabad



His model on the genesis of pseudo-leucite, based on diffusion studies, is universally accepted. He has conducted experimental studies on ultrapotassic rocks leading to a

better understanding of their genesis. He has worked in experimental petrology.

**Kochupillai, N.**, All-India Institute of Medical Sciences, New Delhi



His research interests are endocrine and metabolic disorders as seen in India, particularly thyroid disorders. His research activities include quantitation of hormonal substances in human diseases. He has demonstrated the role of neonatal thyroid status in iodine-deficient areas in causing irreversible damage to the developing brain and the advantage of using iodized salt to overcome endemic iodine deficiency

**Kulkarni, Bhaskar Dattatraya**, National Chemical Laboratory, Pune

He has made pioneering contributions in the area of stochastic modelling of catalytic and non-catalytic systems

**Mukherjee, D.**, Indian Association for the Cultivation of Science, Calcutta



His fields of research are theoretical chemistry and theoretical spectroscopy. He has been engaged in formulating and applying a class of many body methods, now known as open-shell coupled cluster formalisms, to the elucidation of molecular electronic structure and dynamics.

**Nadkarni, Mehendra Ganpatrao**, University of Bombay, Bombay

He has made significant contributions

to stationary processes, ergodic theory and descriptive set theory.

**Sane, Prafullachandra Vishnu**, National Botanical Research Institute, Lucknow



He has made significant contributions to primary photochemistry of photosystem II and the relationship between delayed luminescence and thermoluminescence in green-plant photosynthesis.

**Saxena, Rajendra Narain**, University of Delhi, Delhi

He has made research contributions in the role of photoperiod and the pineal gland in the regulation of reproduction of birds.

**Singh, Rishi Narain**, National Geophysical Research Institute, Hyderabad



He has contributed to several areas of theoretical geophysics and tectonophysics. His current interest is modelling nonlinear and stochastic aspects of lithospheric dynamics, both continental and oceanic

**Singh, Sarva Jit**, Maharshi Dayanand University, Rohtak



His main field of interest is theoretical seismology. He has made important contributions to the theory of generation and propagation of elastic waves in the earth.