

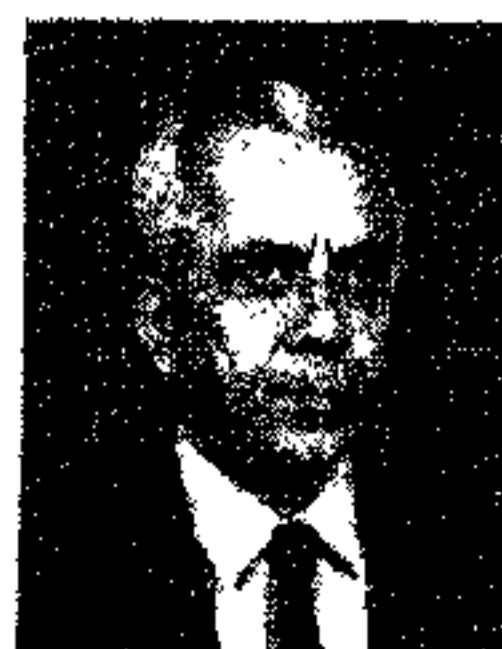
INSA elects new Fellows

BAMJI, Mahtab S., National Institute of Nutrition, Hyderabad.



Her early work on vitamin A was followed by contributions in (a) biochemical assessment of riboflavin and its deficiency in children, (b) involvement of riboflavin and pyridoxine in the metabolism of connective tissue protein, (c) oral contraceptives and nutritional interactions, (d) carnitine status and biosynthesis in humans, and (e) gossypol's antifertility effects in male. She has also studied the inter-relationship between women's work-load, income and nutrition.

BANERJEE, Haridas, Saha Institute of Nuclear Physics, Calcutta.



His early studies were on polarization effects in processes in quantum electrodynamics, on asymptotic behaviour in perturbative expansions in relativistic quantum field theories and on multi-particle production in high energy collisions of hadrons. His current studies have shown that the standard arguments for the global SU(2) anomaly of chiral fermions are untenable. In his latest work, he has proposed an option alternative to and competing with the widely accepted model for realization of gauge symmetries and the violation of CP symmetries.

BHATTACHARYA, Samir, Visva-Bharati University, Santiniketan.



He has made significant contributions in the field of biochemical endocrinology which includes hormonal regulation of fish reproduction, thyroid-gonad interaction, purification of hormones, development of RIA and RRA of hormones and studies on the mechanism of hormone action.

BHAWALKAR, Dilip Devidas, Centre for Advanced Technology, Indore.



He has helped in developing advanced laser systems and related diagnostics. He has studied the effect of radiation losses on temperature scaling laws and the proposal of a novel scheme for multiple pulse amplification in high power lasers.

DANI, Shrikrishna Gopalrao, Tata Institute of Fundamental Research, Bombay. He has made outstanding contributions to ergodic theory and geometry of unipotent flows on finite homogeneous spaces, with consequences for number theory.

GANGAL, Sudha G., Cancer Research Institute, Bombay.



She has made major contributions in cancer immunology particularly cellular immunology. Her studies on cytotoxic effector mechanism in oral cancer and the development of monoclonal antibodies against tumour markers and squamous cell carcinoma antigens have been acclaimed worldwide.

JUNJAPPA, Hiriakkanavar, North-Eastern Hill University, Shillong.



His main research interests involve development of new methodologies for constructing new and old compounds with improved efficiency. An impressive synthon called α -oxoketenedithioacetals has been exploited for developing new synthetic methods used in producing a number of hetero and carbocyclic compounds of pharmaceutical and industrial importance.

KENKARE, Umakant Waman, National Facility for Animal Tissue and Cell Culture, Pune.



He has made notable contributions to structure-function relationship of brain hexokinase and the mapping of its catalytic and regulatory sites.

KRISHNAMURTHY, Setharampattu Seshaiyer, Indian Institute of Science, Bangalore.



He has made fundamental contributions to non-metal chemistry and organo-metallic chemistry of diphosphazane ligands. His structural work on cyclo-phosphazenes, mechanistic spectral studies on co-ordinated phosphorous specimen, metal vapour synthesis of organometallics and hetero NMR work have been well recognized.

MATHAN, V. I., Christian Medical College, Vellore.



He has made important contributions in the study of diarrhoeal diseases, notably in tropical sprue including the epidemiological, metabolic, morphological and ultrastructural fields.

MATHUR, Asha, K. G.'S Medical College, Lucknow.

She has made significant original contributions in the field of immunology and immunopathology of Japanese encephalitis virus infection and demonstrated the transplacental transmission of the virus in humans.

MISHRA, Santosh Kumar, Indian Institute of Tropical Meteorology, Pune.



He has made original contributions in atmospheric dynamics, particularly related to the origin of counter electrojet, ionospheric ledges and the role of gravity waves/winds in generating/modulating electric fields.

NAG, Kamalaksha, Indian Association for the Cultivation of Science, Calcutta.



He has made important contributions to the inorganic chemistry of macrocyclic compounds. These include structure-property correlation in macrocyclic complexes, synthetic reactivities and structural aspects of transition metal chemistry and modelling of active sites of some metalloenzymes.

PAL, Manoj Kumar, Saha Institute of Nuclear Physics, Calcutta.



He has made significant contributions in theoretical nuclear physics.

PARIMALA, Raman, Tata Institute of Fundamental Research, Bombay.



She has made significant contributions to the theory of quadratic forms over arbitrary commutative rings, and classification of certain quadratic spaces.

PRASAD, Rajendra, Indian Agricultural Research Institute, New Delhi.



He has made major contributions in fertilizer research and the use of nitrification inhibitors and slow-release fertilizers for increased efficiency of fertilizer nitrogen. He discovered the nitrogen regulating properties of neem cake.

PRASAD, Y. V. R. K., Indian Institute of Science, Bangalore.



He has contributed to our understanding of mechanical processing of materials and for the development and successful use of irreversible thermodynamic models that link continuum mechanics and atomistic approaches to the flow of materials in net shape-making processes.

RAGHAVARAO, Ravipati, Physical Research Laboratory, Ahmedabad.



He is well recognized for his contributions to the study of upper atmosphere. He has extensively used the rocket techniques to fly complex equipment to measure ionospheric parameters. His work has resulted in new and fundamental progress in ionospheric physics.

RAMAMURTI, Viswanatha, Indian Institute of Technology, Madras.



He has contributed to our understanding of static and dynamic structural analysis of complex mechanical elements.

RAMESHA RAO, Araga, Jawaharlal Nehru University, New Delhi.



He has made outstanding contributions in cancer biology and radiation biology especially modulation of perinatal and multigeneration carcinogenesis.

ROY, Ashit Baran, M. L. Sukhadia University, Udaipur.



He is one of the distinguished structural geologists of India whose researches in the fields of precambrian structure of Singhbhum and Rajasthan are now considered invaluable to the understanding of the complex geology of the regions. His work on the evolution of slaty cleavage is of fundamental importance.

SACHDEV, Purushottam Lal, Indian Institute of Science, Bangalore.



He has made significant contributions to nonlinear waves with application in geophysics and transonic flows. He developed an elegant theoretical model to understand the solitary wave structures observed in the atmospheres and the propagation of water waves in a bounded body water with flat bottom.

SARMA, Vallury Visweswara Subrahmanya, Indian Institute of Science, Bangalore.



He is actively engaged in the development of knowledge-based systems for a variety of applications in space, defence, engineering design and management of complex systems. His present interests include artificial intelligence, expert systems, dependable computing and software engineering.

SEKHON, G. S., Potash Research Institute of India, Haryana.



His contributions on soil potassium as a soil fertility indicator have resulted in

defining practical methods that will reduce the transport and accumulation of nitrates in ground water—a major pollution hazard in the intensively cropped irrigated lands.

SETHUNATHAN, Nambrattil, Central Rice Research Institute, Cuttack.



His work on pesticide microbiology on the use of micro-organisms for removal of pesticide pollutants from tropical environments is well known. The problem of accelerated biodegradation of pesticide reported by him has now been demonstrated with many carbamate pesticides. He has isolated Flavobacterium from diazinon-retreated fields, which exhibits an exceptional capacity to degrade a variety of organophosphorus insecticides and is being used for genetic manipulation in many laboratories.

SINGH, P. K., Central Rice Research Institute, Cuttack.



He has worked on various aspects of algae, *Azolla* and cyanophages. His contributions on cyanophages, cyanobacterial genetics and radiation biology, biological nitrogen fixation and biofertilizers to rice are well recognized.

SUBRAMANIAN, Sankaran, Indian Institute of Technology, Madras.



ACADEMY NEWS

His scientific contributions are in magnetic resonance and quantum mechanics and is among the very few to study the properties of solids. His work on dynamic and static Jahn-Teller effect and his study of clathrating and declathrating behaviour in Hoffmann-type benzene and aniline clathrates are often quoted.



VERMA, Jeevan Prakash, Indian Agricultural Research Institute, New Delhi.



SUROLIA, Avadhesh, Indian Institute of Science, Bangalore.

He has made notable contributions to studies on molecular mechanisms of receptor-lectin recognition and elucidation of lectin quaternary structure and sub unit interfaces by chemical cross linking.

TEWARI, H. B., M. L. Sukhadia University, Udaipur.

He has made exhaustive studies in the field of histochemistry of nervous system, covering topographical and functional aspects of a large number of enzymes in different parts of the nervous system. A new concept on the structure of myelin sheath of sciatic nerve of rat, demonstration of cytochrome oxidase in the cell nucleus and nucleolar extrusion in spinal ganglion cells are some of his research highlights.

He is a leading plant bacteriologist who identified and transferred the most desirable combination in suitable cultivars. His studies on the ultrastructure of bacteriophages, slime, mureins, etc. have greatly contributed to our understanding of plant diseases.

Twentyfifth Course on Management of R&D Systems

Place: Hyderabad

Date: 12-17 March 1990

Topics to be covered include national science and technology policies; organization structure and dynamics; selection, planning and monitoring of R&D projects; technology forecasting; management of human resources; transfer of technology.

Contact: The Programmes Officer
Administrative Staff College of India
Bella Vista
Hyderabad 500 049

Indian Geophysical Union 26th Annual Convention and Seminar on Global Change

Place: Hyderabad

Date: 15-17 March 1990

Contact: Dr T. Atchuta Rao
Hon. Secretary, IGU
NGRI Campus
Hyderabad 500 007

National Congress on Biotechnology

Place: Hyderabad

Date: 16-18 March 1990

The theme of the congress is 'Biotechnology for human welfare'. The programme includes symposia on 'Application of recombinant DNA technology in disease diagnosis', 'Role of biotechnology in human welfare' and 'Application of biotechnology in biogas production'.

Contact: Prof. P. P. Reddy,
Director, National Congress on Biotechnology
Institute of Genetics
Hospital for Genetic Diseases
Begumpet
Hyderabad 500 016

1991 (Seventh) Japan Prize in 'Applied Mathematics' and 'Imaging Techniques in Medicine'

The Chairman of the Science and Technology Foundation of Japan has named Prof. S. S. Sarkar as one of the nominators for the 1991 Japan Prize.

Candidates for the prize should have outstanding achievements in applied mathematics based on analytic and numerical methods, and should have made significant contributions to solution of problems in industry and other fields, or to application of medical and imaging techniques in clinical medicine, basic medicine and biology.

The prize awards a medal and the sum of 50 million yen in each field.

Applications, to reach not later than 31 March 1990, should include: name—last, first, other; organization and position; address of organization, telephone; permanent address, telephone; achievements and publications and other relevant information. Send to: Prof. S. S. Sarkar, P.O. Box 122, Howrah 711 101.

S. P. Basu Memorial Medal for Zoological Research

The Zoological Society invites applications for the award of S. P. Basu Memorial Medal for outstanding contribution in general zoology, including original research on all aspects of zoology. All members and fellows of the Zoological Society and Indian nationals are eligible. Candidates, who cannot be earlier awardees, must be below 35 years on the last day of March 1990. Last date for application is 31 March 1990. Application forms may be had from Dr R. C. Basu, Hon. Gen. Secretary, ZSI, 35 Ballygunge Circular Road, Calcutta 700 019.