82nd ANNIVERSARY GENERAL MEETING, BHUBANESHWAR

The 82nd Anniversary General Meeting of the Council was held at National Institute of Science Education & Research, Bhubaneshwar from December 28-30, 2016. This three day event included two symposia on Food Security in a Changing World (Convener: Dr Anindita Bhadra, Department of Biological Sciences, IISER-Kolkata) and NISER: A Brief Scientific Journey (Convener: Professor V Chandrasekhar, Director, NISER, Bhubaneshwar).

Professor R Gadagkar delivered the Presidential Anniversary Address on How and Why I do My research: Some Reflections on the Pursuit and Evaluation of Science. During this meeting, 30 new Fellows were inducted to Fellowship of the Academy, 18 Young Scientist awardees were presented the INSA Medal for Young Scientist, 13 Teachers were presented the INSA Teachers Award and 1 young historian was presented the INSA Young Historian of Science Award.

The Council, at its meeting at NISER Bhubaneshwar, decided to offer INSA Medal for Promotion and Service to Science (2017) to Professor Goverdhan Mehta, University Distinguished Professor and Dr Kallam Anji Reddy Chair, School of Chemistry, University of Hyderabad, Hyderabad; Daulat Singh Kothari Memorial Lecture (2017) to Professor D Balasubramanian, Distinguished Scientist & Director of Research Emeritus, LV Prasad Eye Institute, Hyderabad; Indira Gandhi Prize for Popularization of Science (2017) jointly to Professor...
Arnab Bhattacharya, TIFR, Mumbai and Dr Narottam Sahoo, Senior Scientist, Gujarat Council of Science City, Ahmedabad (for Career Scientists) and Mr Pallav Bagla, Science Editor, NDTV (for Media Personnel) and INSA Srinivasa Ramanujan Research Professorship (2017) to Professor R Balasubramanian, The Institute of Mathematical Sciences, Chennai.

Award Lectures during the 82nd Anniversary General Meeting

Seven award lectures were delivered at NISER Bhubaneshwar:

The Golden Jubilee Commemoration Medal (Chemical Sciences) (2013): Professor V Chandrasekhar, Director, National Institute of Science Education & Research, Bhubaneshwar delivered the Golden Jubilee Commemoration Medal (Chemical Sciences) Lecture on Single Molecule Magnet Behavior in 3d/4f and 4f Complexes.

Sunder Lal Hora Medal (2014): Professor BK Thelma, Department of Genetics, University of Delhi, New Delhi delivered Sunder Lal Hora Medal Lecture on Making Headway from Genome Architecture to Genome Medicine with Impressive Technologies and Big Data.

Shanti Swarup Bhatnagar Medal (2013): Professor Indira Nath, Former, Raja Ramanna Fellow and Emeritus Professor, National Institute of Pathology, New Delhi delivered Shanti Swarup Bhatnagar Medal Lecture on Urban Health and Climate Change - A Systems Approach.

Shanti Swarup Bhatnagar Medal (2016): Professor V Ravindranath, Centre for Neuroscience, Indian Institute of Science, Bengaluru delivered Shanti Swarup Bhatnagar Medal Lecture on The Degenerating Brain: Mechanisms to Therapy.

CV Raman Medal (2016): Professor N Sathyamurthy, Director, Indian Institute of Science Education & Research, Mohali delivered CV Raman Medal Lecture on Atoms and Molecules in a Confined Environment.

INSAsainu Bappu Memorial Award (2016): Dr Anil Bhardwaj, Director, Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram delivered INSA-Vainu Bappu Memorial Award Lecture on X-ray Emission from the Solar System Bodies.

Condolence at the passing away of the distinguished Fellows

Professor Gadagkar read the obituary notes for Professors BB Chattoo, MGK Menon, V Ramamurti, Vijay Kumar Sharma, BLK Somayajulu, JP Thapliyal and Dr Subramaniam Nagarajan, esteemed Fellows of the Academy who passed away. A minute's silence was observed as a mark of respect to the departed soul.
Felicitations to the outgoing members of the Council

The outgoing members of the Council (Professors JP Mittal, Rajendra Prasad, Vice-Presidents, R Ramesh, Member) were felicitated by the Professor Gadagkar, President, INSA. He presented them a shawl as a token of respect.

Felicitation of Professor Raghavendra Gadagkar, the out-going President, INSA by President-elect, Professor AK Sood

Professor AK Sood, President-elect was invited to felicitate the outgoing President, Professor Raghavendra Gadagkar. He was also presented an album containing photographs highlighting the major activities of INSA during his tenure as President. Professor Sood thanked Professor Gadagkar for guiding the Academy and initiating many new programmes under his leadership. He expressed confidence that his continuing support and guidance will be useful to the Academy in times to come.
AWARD LECTURES DELIVERED UNDER LOCAL CHAPTERS


Dr Biren Roy Memorial Lecture (2016): Professor Avinash Khare, Department of Physics and Astrophysics, University of Delhi delivered Dr Biren Roy Memorial Lecture on Creation of General Relativity: Einstein and Hilbert at Department of Physics and Astrophysics, University of Delhi, Delhi on January 19, 2017.

INTERNATIONAL ACTIVITIES

Nominations/Election of Indian scientists for various positions at International Council for Science (ICSU) and its different Unions

- Professor LS Shashidhara, Indian Institute of Science Education and Research, Pune has been nominated for the membership of ICSU-ISSC (International Social Science Council) Transition Task Force (TTF) Support team.
- Professor Harsh K Gupta, Koteswaram Professor, National Geophysical Research Institute, Hyderabad has been nominated for the membership of ICSU-ISSC (International Social Science Council) Strategy Working Group (SWG) Support Team.
- Dr Madhavan Nair Rajeevan, Secretary, Ministry of Earth Sciences, New Delhi has been nominated for the membership of scientific committee of Integrated Research on Disaster Risk (IRDR) Programme of ICSU.
- Dr Ch. Mohan Rao, CSIR- Centre for Cellular and Molecular Biology, Hyderabad has been re-nominated for the membership of IUPAB (International Union of Pure & Applied Biophysics) Council.
- Dr Bipulbehari Saha, Director-R&D, Nagarjuna Agrichem, Hyderabad has been nominated for the position of Titular Member of COCI (Committee on Chemistry and Industry) of International Union of Pure & Applied Chemistry (IUPAC).
- Professor TK Chandrashekar, School of Chemical Sciences, National Institute of Science Education & Research, Bhubaneswar has been re-nominated for the membership of IUPAC Bureau.

Workshop/Symposia/Conference supported by the Academy

- A Brainstorming Session on Early Earth Geodynamics and the switch over to Plate Tectonic regime was organized at Jamia Millia Islamia, New Delhi by International Union of Geological Sciences - International Quaternary Research (IUGS-INQUA) National Committee on December 2, 2016.
‘8th Annual Meeting of Proteomic Society, India & 3rd Meeting of Asia Oceania Agricultural Proteomic Organization & International Conference on Functional & Interaction Proteomics: Application in Food & Health’ was organized at Hotel The Grand, New Delhi under the aegis of International Union of Biochemistry and Molecular Biology (IUBMB) National Committee during December 14-17, 2016.

A Brainstorming Session and Workshop on Quaternary Environments and Climates: Focus on Holocene and Anthropocene was held at Birbal Sahni Institute of Paleosciences, Lucknow under the aegis of International Union of Geological Sciences - International Quaternary Research (IUGS-INQUA) National Committee during February 21-23, 2017.

Visit of Overseas Delegates to INSA

- Professor Francesco Sciortino, Dipartimento di Fisica, Universita’ di Roma “La Sapienza” Roma, Italy visited India as Dr DS Kothari INSA Chair awardee for three weeks from January 15-February 5, 2017. During his visit to India, Professor Sciortino visited Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru and Delhi University.

- Professor Robert James Wasson, Institute of Water Policy, Lee Kuan Yew School of Public Policy, National University of Singapore visited India as Dr Vikram Sarabhai INSA Chair awardee for three weeks from February 8-March 1, 2017. He visited Delhi University; Central Arid Zone Research Institute, Jodhpur; Birbal Sahni Institute of Paleosciences, Lucknow and Physical Research Laboratory, Ahmedabad. A three day workshop on ‘Knowledge for Flood Disaster Risk Reduction (DRR)’ coordinated by Professor Wasson and Professor AK Singhvi, Honorary Scientist, AMOPH Division, Physical Research Laboratory, Ahmedabad was organized at INSA during February 10-12, 2017.

Overseas Visits by INSA Delegations

- Professor R Gadagkar, President and Dr Chandrima Shaha, Vice-President (International Affairs) INSA, visited France during September 25-28, 2016 to participate in the 350th Anniversary of the French Academy of Sciences - World Science Day held on September 27, 2016 at Paris. A Common Statement about Science, as given below, was issued at this meeting:

**Common statement about Science**

Paris, 27th of September, 2016

Science and trust

Knowing and understanding what surrounds us and who we are is a driving force of human life. The acquisition of scientific knowledge over the centuries has always been a source of progress. It is a catalyst for culture, development, creative cooperation and can lead to unexpected applications. Scientific knowledge, with its advancement due to research and accompanying technologies, is part of the heritage of humanity that must be made available for use by everyone. Faced with the major issues of this early 21st century - an unprecedented increase in world population, the depletion of natural resources, unbalanced development, changes in our planet’s ecosystem - it is of crucial importance that our societies make use of the rational approach that characterizes scientific thought so that we can address the issues of today responsibly and face those of tomorrow with serenity.

Science – universally shared, with its applications under control and consolidated for peoples’ benefit and not to their detriment – is quite capable of confronting these major issues. However, it would be a mistake to ask science to provide all the answers. This it cannot do. On the other hand, a return to obscurationism would constitute a major regression for our civilisations.

From time immemorial, human progress has resulted from multiple exchanges, from prehistoric migrations to today’s universe of virtual outreach. The rapidity of communication by digital technology sometimes leaves us confused, without the necessary time for reflection. It is essential to shape this new tool in order to safeguard the time to think.

The two human realisations, science and society, interact with each other. They should not be antagonistic but rather synergise through dialogue and mutual support to enable human advancement.

Aware of the doubts that periodically surface in our societies about the usefulness of science, the Academies gathered in Paris on this 27th of September, 2016, express their trust in education and in the capacity of scientific research to promote the progress of mankind.

- Professor R Gadagkar, President INSA, visited Halle, Germany and delivered the first lecture of the Leopoldina Lecture series of INSA and German National Academy of Sciences on Can we understand an insect society, and why should we care? on December 5, 2016.

- Professor Indira Nath, Former, Raja Ramanna Fellow and Emeritus Professor, National Institute of Pathology, New Delhi and Dr Jaya
Sivaswami Tyagi, Department of Biotechnology, AIIMS, New Delhi participated in G20 initiative of the National Academies of the G20 states organized by German National Academy of Sciences Leopoldina (GNASL) in Halle during January 24-26, 2017.

Support for Visiting Scientists during December 2016 -February 2017

- Eight Indian scientists were supported by the Academy for attending various international conferences abroad.
- Four Indian and six foreign scientists visited abroad and India, respectively, under INSA Bilateral Exchange Programmes.

SCIENTIFIC MEETINGS DURING DECEMBER 2016 - FEBRUARY 2017

Indo-Australia Researchers Fellowship Programme

The Academy with the support from Department of Science and Technology launched an Indo-Australia Early and Mid-Career Researchers Fellowship Programme for the year 2016-17 to provide opportunity to Indian Researchers/Scientists to visit Australia to collaborate with the Australian Researchers. A meeting for selection committee of Indo-Australia Early and Mid-Career Researchers Fellowship Programme for the year 2016-17 was held on December 21, 2016 at INSA. The committee selected 20 Indian scientists to visit Australia under this programme.

SCIENCE & SOCIETY PROGRAMME

National Science Day Lectures 2017

Professor Balram Bhargava, AIIMS, New Delhi delivered the INSA-TWAS Keynote Lecture on Gandhian Innovation in Healthcare which was organised on the occasion of ‘National Science Day’ celebrations under Delhi Local Chapter on February 27, 2017 at University of Delhi South Campus.

Indian National Science Academy in collaboration with Indian Institute of Technology, Delhi celebrated the National Science Day on February 28, 2017. Three lectures were organized at IIT, Delhi. Professor M Balakrishnan, Deputy Director & Professor of Computer Science & Engineering, IIT Delhi delivered lecture on ASSISTECH: Technology Solutions for Mobility and Education of Visually Impaired. Professor U Singh, Head, Physical Medicine and Rehabilitation, AIIMS, New Delhi delivered lecture on Technology in the Service of Persons with Locomotor Disability. Mr. VR Mehta, Executive President, Bhagwan Mahaveer Viklaang Sahayata Samiti delivered lecture on Jaipur Foot – A Marvel in Frugal Engineering.

AWARDS AND HONOURS TO INSA FELLOWS

The Government of India has awarded Civilian Awards to following Fellows of the Academy:

Padma Vibhushan : Professor UR Rao
Padma Shri : Professor JN Goswami

The Cell Stress Society International, USA, has elected Professor SC Lakhotia as its Senior Fellow.

RECENT PUBLICATIONS OF THE ACADEMY

Indian Journal of History of Science (IJHS)

Volume 51, No. 4 (December 2016) issue of IJHS has been published. This is a thematic issue on Cross Civilizational Interactions in Antiquity— India, Iran, Greece and China. The papers are outcome of a history of science seminar organized during January 7-9, 2015 at National Museum, with Drs Lotika Varadarajan and Surajit Sarkar of the Ambedkar University, Delhi as Conveners. This issue contains papers on an Indic text on earth science; Throne in Indian perspective; Hybrid creatures in Iranian and Indian art; Commonalities between Yajna ritual in India and Yasna ritual in Iran; Indian high-Tin bronzes and the Grecian and Persian world; Vețikkampavidhi: A text on Pyrotechny; Central Asia as a melting pot of Persian, Greek, Indian and Chinese Cultural Traditions; Taxila – an alternative urbanisation between the Silk road and the Uttarâpatha; Buddhism in Khotan and Soghdiana; Kṛṣṇa iconography in Khotan Carpets, Xinjiang; Benaki Collection of Fustat Textiles and Indian Science and the birth of
the Islamic golden age in the eighth century from Balkh to Baghdad.

**Indian Journal of Pure and Applied Mathematics (IJPAM)**

Volume 47, No. 4 (December 2016) issue of *IJPAM* has been published.

**OBITUARY**

**Paramvir Singh Ahuja**

Paramvir Singh Ahuja (*b* 19 December 1952; *d* 22 January 2017) obtained his PhD from University of Nottingham, UK as a Commonwealth Scholar and was a Post-Doctoral NSERC Fellow at McGill University at Montreal, Canada. He worked at the Plant Breeding Institute at Cambridge, UK and Nuclear Research Institute at Julich in Germany during his PhD. He was Head of the Department of Plant Tissue Culture at CIMAP, Lucknow during which period the Department became a Centre of Excellence. Thereafter, he joined as Head of Plant Biotechnology and Biodiversity Conservation Division at Palampur, now known as IHBT. Later, he became the Director of the CSIR-Institute of Himalayan Bioresource Technology (IHBT). He also had an additional charge as Director of CIMAP and as Scientific Director of NBRI, Lucknow. He was also a Visiting Scientist to the Ohio State University at Columbus, USA.

Dr Ahuja made significant contributions in the release of a salt tolerant wheat variety. He played a leading role in the landmark release of the first somaclonal variety in India in the aromatic grass *Cymbopogon winterianus* popularly known as CIMAP BIO-13 which remains popular even after three decades. He made a commendable contribution in the area of conservation and improvement of Medicinal and Aromatic plants. His work on reproductive biology, tissue culture of MAPS led to the development of gene bank at CIMAP. He has provided leadership for the production of several somatic hybrids in Tropaeane Alkaloids and has been a pioneer in hairy root production and secondary metabolites. He significantly contributed to characterization of the Indian Tea germplasm. His research on tea, rose and potato transgenics, is globally acknowledged. His role in bioprospection of novel enzymes and plants, genes from high altitudes and their validation and translation for adoption by the industry is noteworthy. He played a pivotal role in introducing stevia as a crop to the country and several other medicinal plants as commercial crops, thereby promoting diversified agriculture. He developed commercially viable processes for production of Steviol glycosides and the enzyme SOD. He significantly contributed to extension of rural technologies to remotest tribal locations in Himalayas.

Dr Ahuja was recipient of VASVIK Award for the contribution “Research in Agricultural Sciences & Technology”; Professor Pran Nath Mehra Memorial Award; Birbal Sahni Medal by the Botanical Society of India; Professor RN Tandon Memorial Lecture Award to name a few. He was a member of Research Councils/ Scientific Advisory Committees/Management Councils of several prestigious institutions of the country. He was also a member of various national and international scientific societies. He was elected Fellow of National Academy of Agricultural Sciences, New Delhi and National Academy of Sciences, Allahabad.

Dr PS Ahuja was elected to the Fellowship of the Indian National Science Academy in the year 2013.

**Laxman Singh Kothari**

Laxman Singh Kothari (*b* 13 April 1926; *d* 22 January 2017) obtained his PhD from University of Mumbai specializing in Neutron Physics and Solid-State Physics. He served in various capacities at Bhabha Atomic Research Centre, Mumbai and
later became Professor of Physics at University of Delhi. He was also a Member of IUPAP Commission on Physics Education and was an Editorial Board Member of *Physics Letters*.

Professor Kothari’s major research work was focused on neutron scattering, thermalization and diffusion in solids and light and heavy water. He obtained many interesting results, which were verified experimentally. He worked on transient and partially illuminated solar cells, and studied the effect of electric field on the atomic scattering factor for X-ray scattering. He co-authored seven books including two in Hindi and edited four books.

Professor Kothari was a Member of American Nuclear Society. He was elected Fellow of the Institute of Physics (London). He also served as Editor of INSA Publications during 1975-78.

Professor LS Kothari was elected to the Fellowship of the Indian National Science Academy in the year 1966 and served as Treasurer of INSA during 1989-92.

**Anjan Kundu**

Anjan Kundu (*b 24 January 1953; d 31 December 2016*) obtained his PhD from Patrice Lumumba University, Moscow. He then continued his postdoctoral research in USSR at the Joint Institute of Nuclear Research, Dubna. On returning to India, he joined as CSIR pool officer at Jadavpur University, Kolkata and later as a Lecturer of Physics at Birla Institute of Technology & Sciences, Pilani. He then joined Saha Institute of Nuclear Physics, Kolkata as Faculty and ultimately became Senior Professor until his superannuation in 2012. He was also a Senior Associate at the International Centre for Theoretical Physics, Trieste, Italy and also served as an External Expert for City University of London. He held visiting positions at numerous centres all around the world.

Professor Kundu made pioneering contributions to nonlinear dynamics and integrable systems both at classical and quantum levels. A Gauge unification scheme formulated by him is well recognized through Kundu, Kundu-Eckhaus and RKL equations appearing in titles and abstracts of citations. An innovative ancestor model scheme of Kundu unifies quantum group. A challenging problem of formulating the theory of non-ultralocal quantum systems was solved by him through novel braided Yang-Baxter equation. Delta-function anyon gas of Kundu became a basic model in 1D anyons, to which many papers and PRLS are devoted. New integrable extension of Calogero model, an innovative non-linearization scheme and non-holonomic deformation of integrable systems, formulation of integrable defect and variable mass sine-Gordon equation, topological models with Hopf invariant and non-spherically symmetric Skyrmion, pioneering quantum integrable models like relativistic Toda chain, quantum mKdV and derivative NLS were his other significant contributions.

Professor Kundu won many scholarships including National Science Talent Search (NSTS) Scholarship & Certificate; Govt. of India Exchange Scholarship; Excellent Student Badges & Scholarship. He was a Member of the Editorial Board of *World Journal of Mechanics*, Scientific Research Publishing, USA and of the *Proceedings of Royal Society of London*. He was elected Fellow of the Indian Academy of Sciences, Bangalore.

Professor Anjan Kundu was elected to the Fellowship of the Indian National Science Academy in the year 2014.

**Subrahmaniam Nagarajan**

Subrahmaniam Nagarajan (*b 07 November 1945; d 25 December 2016*) received his PhD in Agriculture from Delhi University. He was a Wheat Pathologist at Indian Agricultural Research Institute and also the first Chairperson of the Protection of Plant Varieties and Farmer’s Right Authority (PPV & FRA), Government of India. He joined as Director
of Indian Agricultural Research Institute at New Delhi and later became Project Director of All India Wheat Program and re-established the Wheat Research and Development Programme at Karnal.

Dr Nagarajan research was focused on epidemiology of the cereal rusts, propounded stem rust rules and explained the nature and recurrence of *Puccinia graminis tritici* and *P. recondite tritici*. He suggested that the urediospores originating from the Nilgiris spread to Central India under the influence of tropical cyclone that occurs in the Bay of Bengal during November. Based on this, a disease management strategy was formulated and implemented to contain crop losses. He also explained the nature and recurrence of the leaf rust (*P. recondite tritici*) and the stripe rust (*P. striiformis*) over the Indo-Gangetic plain. He proposed ‘gene deployment’ as a strategy and developed gene matching technique to postulate the resistance genes in a variety which resulted in no serious crop loss due to rust epidemics for almost 12 years. He along with his colleagues identified two new leaf rust resistance genes: Lr48 and Lr49 and also developed a wheat variety DBW14 for the eastern Gangetic plain. He authored more than 130 research papers, 50 chapters in various books and two textbooks.

Dr Nagarajan was conferred with many awards including the Rafi Ahmed Kidwai Award of ICAR; Award of Distinction at the International Plant Protection Congress, The Hague; Om Prakash Bhasin Award; Chaudhri Ram Dhan Singh Award for contribution to Wheat Improvement by HAU, Hisar; KS Bilgrami Memorial Medal of INSA; Norman Borlaug Award by Coromandel Fertilizers; AS Cheema Award by Young Farmer’s Association of Punjab; Dr BP Pal Gold Medal for Wheat Pathology and Wheat Improvement; and Silver Jubilee Commemoration Medal of INSA for contribution to Agriculture and Allied Sciences. He was a Member of the Centre Commissioned External Review (CCER) of CIMMYT, Mexico; Central Pesticide Registration Committee; Central Variety Identification Committee; and Management boards of many agricultural institutes; Chairman MEC; and Co-Chair RCGM.

Dr Subrahmaniam Nagarajan was elected to the Fellowship of the Indian National Science Academy in the year 2005.

**Bhamidipati Lakshmidhara Kanakadri Somayajulu**

Bhamidipati Lakshmidhara Kanakadri Somayajulu (*b* 05 March 1937; *d* 19 December 2016) obtained his PhD from Bombay University. He joined BARC Training School and subsequently the Geophysics Group of the Tata Institute of Fundamental Research (TIFR), Mumbai while pursuing his doctoral studies. He spent three years at Scripps Institution of Oceanography, California during his PhD and later did his post-doctoral work there. On his return to India, he joined Oceanography and Climate Studies Area, Earth Sciences and Solar System Division of Physical Research Laboratory, Ahmedabad and served the institution until his superannuation in 1997.

Professor Somayajulu extensively researched on the physico-chemical reactions within the oceans and water-sediment interface and has developed many research methodologies which include the nuclear methods for determination of the growth rates of manganese nodules, advection-diffusion mixing of ocean waters, cosmic ray-produced $^{32}$Si and $^{10}$Be in studies for determining the calculation of sediment accumulation rates and geochemical methods for studying reactive elements in sea water. He also made significant contributions in the area of monsoon variability on decadal to millennia time scales based on studies of sediment cores from the Arabian Sea. His studies on $^{32}$Si distribution in the oceans established the potential of this nuclide as a tracer for studying ocean mixing. He conducted beryllium-10 studies on manganese nodules which helped to establish the slow rate of growth of the nodules. He also participated in several international ocean expeditions that include the Antipode expedition to the South Pacific, the GEOSECS Indian Ocean Expedition, and as Chief Scientist in several cruises

Professor Somayajulu was a recipient of SS Bhatnagar Prize; Hari Om Ashram Prerit Award in Oceanology; Jawaharlal Nehru Birth Centenary Lecture Award of INSA; KR Ramanathan Memorial Lecture Award of PRL, and the National Award in Ocean Sciences and Technology of the Ministry of Earth Sciences. He was elected Fellow of the Indian Academy of Sciences, Bangalore; National Academy of Sciences, Allahabad; American Geophysical Union and the Geochemical Society/European Association for Geochemistry. He was a Member of the Governing Council of NCAOR, Goa, and RAC of the Department of Ocean Development and also an executive member of the International Association of Physical Sciences of the Ocean (IAPSO).

Professor BLK Somayajulu was elected to the Fellowship of the Indian National Science Academy in the year 1983 and served as its Council as Member during 1988-90.

**Jagdamba Prasad Thapliyal**

Jagdamba Prasad Thapliyal (*b* 05 November 1922; *d* 30 November 2016) received his PhD from Banaras Hindu University. He was a former Professor and Head of Department of Zoology, Banaras Hindu University and a Professor and Head of Department of Zoology at North-Eastern Hill University, Shillong. He also served as UGC Professor at Manipur University and Research Associate at Rockefeller Foundation, USA.

Professor Thapliyal’s area of interest was in comparative endocrinology and chronobiology. He established the role of thyroid in (i) development and physiology of non-mammalian vertebrates; (ii) regulation of reproduction in reptiles, and (iii) photoperiodic responses, reproduction and migration of birds. He proposed the hypothesis that during evolution of homeothermy, thyroidal hormones acquired control over oxidative metabolism and sex steroids over reproduction.

Professor Thapliyal was honoured with the Gold Medal from Indian Society of Life Sciences and UGC National Lecturership. He was elected Fellow of the Zoological Society of India; National Academy of Sciences, Allahabad; International Society of Chronobiology; European Society of Comparative Endocrinology; Indian Society for Reproductive Endocrinology; American Society of Zoology; Asia Oceania Society for Comparative Endocrinology and many other professional bodies.

Professor JP Thapliyal was elected to the Fellowship of the Indian National Science Academy in the year 1978 and served as its Council as Member during 1987-89.
ANNOUNCEMENTS

Proposal for lectures in the remote/rural areas

The Academy has launched a programme under which INSA Fellows, Young Scientists & Teachers’ Awardees are encouraged to deliver Popular Lectures to young students and teachers of schools and colleges in remote/rural areas in India.

Proposals are invited from Fellows, INSA young scientists and INSA teacher awardees with details like names and addresses of the schools/colleges where they wish to deliver lecture/s of lecture/s, proposed dates and the quantum of required travel support. Proposals may be sent to Executive Director, INSA at esoffice@insa.nic.in and to scisoc@insa.nic.in at the earliest.

Nomination for Election of Fellows, Foreign Fellows and Pravasi Fellows

Nominations are invited from the Fellows of INSA for election of Fellows, Foreign Fellows and Pravasi Fellows. Nomination forms can be downloaded from the INSA website www.insaindia.res.in.