SHRI OM PRAKASH BHASIN

AWARDS FOR

SCIENCE AND TECHNOLOGY

2018
2019
2022

by

Prof. Murli Manohar Joshi

(Padma Vibhushan)
Former Minister for HRD and Science & Technology, Govt. of India

15th February, 2024 at 4 pm

SHRI OM PRAKASH BHASIN FOUNDATION FOR SCIENCE & TECHNOLOGY

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SHRI OM PRAKASH BHASIN FOUNDATION FOR SCIENCE & TECHNOLOGY

Founder Trustees



Late Mrs. Vinod Bhasin



Late Prof. M.G.K. Menon



Shivy Bhasin



Hemant Kumar Bhasin

State Bank of India

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Late Shri Om Prakash Bhasin

13.05.1913 - 01.11.1981

The Values planted by
Shri Om Prakash Bhasin Jee,
we shall keep alive.
The torch lit by him,
we shall keep burning bright.
The Reputation he built,
we shall protect and enhance.
The Foundation laid by him,
we shall continue to bolster.
The legacy left behind by him,
we shall galvanize.
His vision will be our mission.

VISIONARY OF THE TRUST
LATE SHRI OM PRAKASH BHASIN

SHRI OM PRAKASH BHASIN, born on 13th May 1913, was the youngest son of Shri Maharaj Kishan and Smt. Mirdai of Sialkot (now in Pakistan). He lost his parents when he was about 2 years. His uncle Shri Nanak Chand Bhasin, and his aunt Smt. Bibi Pali, the well-known social worker of Sialkot, brought him up. After his graduation from Sialkot, he proceeded to Iraq in 1934 to set up his business there; and later, shifted to Kuwait in 1949. He was a greatly respected and very successful businessman. He made donations to several charitable organizations in different parts of India, as also regular donations to the Prime Minister's relief fund. These have been without any personal consideration, or "discrimination" based on religion, caste, creed or colour etc. His motivation was entirely to do something for his country.

Shri Bhasin envisioned that India will prosper if science & technology develops in our country. He therefore felt that Scientists and Technologists working in India ought to be encouraged by giving them awards for outstanding contributions particularly applications for National Development. He, therefore, decided to create a Trust in India with a corpus of Rs. 51 Lakhs, with the income to be utilized in a manner in which the Nobel Foundation has inspired confidence in its objectivity and selection on merit. He passed away on 1st November, 1981 before the scheme could materialize, but incorporated his intention in his WILL.

After his death, his wife Smt. Vinod Om Prakash Bhasin and their two sons, Shri Shivy Bhasin and Shri Hemant Kumar Bhasin, who were very keen to fulfill his desire, established the Foundation viz. Shri Om Prakash Bhasin Foundation on 22nd August, 1984.



Late Mrs. Vinod Bhasin

08.09.1928 - 22.12.2008

Remembrance of Late Mrs. VINOD BHASIN

Mrs. Vinod Bhasin was born on 8th September, 1928 in Rawalpindi (now in Pakistan). She was the wife of the Founder of this Trust Late Shri Om Prakash Bhasin. She was named the first Chairperson of this Trust/Foundation and headed it till her sad demise on 22nd December, 2008.

Mrs. Vinod Bhasin was very passionate about the Trust and all other charitable organizations that she & her husband got involved with, She took it upon herself as a mission to promote and support the cause that was so close to her husband's heart.

It would be fair to say that the entire success of 'The Shri Om Prakash Bhasin Foundation for Science & Technology' is due to the efforts of Mrs. Vinod Bhasin. Even though she was not a scientist, her sheer enthusiasm for this cause helped create a team of eminent scientists to support the Trust. Her dynamism, passion and determination has been at the heart of this great Foundation. She believed in the objectivity and impartiality of the deliberations to select the awardees; and took great interest in the discussions of the Jury to select the Awardees. She herself sent messages of congratulations to the selected individuals and often visited the places where the awardees had done the work that led to the Award.

Mrs. Bhasin will be greatly missed. It would be her goal to see her children further promote and uphold the noble thoughts behind this Trust. I know personally that the more she was involved in the Trust, the more she felt a closeness to her husband, whom she loved and respected dearly. She would want her children to carry forward this noble legacy. Mrs. Vinod Bhasin makes one realize the boundless power of a noble idea. This was an idea that her husband planted, which she grew into a glorious reality. We hope the Trust continues to grow and spread as its Founder & first Chairperson would want.

We will miss you dearly and hope we can live up to the impeccable standards you have created at The Shri Om Prakash Bhasin Foundation for Science & Technology.

Thank you Vinod Jee for all that you have done.

Prof. M.G.K. Menon, FRS

SHRI OM PRAKASH BHASIN AWARDS FOR SCIENCE AND TECHNOLOGY

Shri Om Prakash Bhasin envisioned that India will develop if science & technology develops in our country. He therefore felt that Scientists and Technologists working in India ought to be encouraged by giving them awards for outstanding contributions particularly applications for National Development. He therefore, decided to create a Trust in India with a corpus of Rs. 51 Lakhs, with the income to be utilized in a manner in which the Nobel Foundation has inspired confidence in its objectivity and selection on merit. He passed away on 1st November, 1981 before the scheme could materialize, but incorporated his intention in his WILL.

After his death, his wife - Smt. Vinod Om Prakash Bhasin and their two sons, Shri Shivy Bhasin and Shri Hemant Kumar Bhasin, who were very keen to fulfill his desire, established the Foundation viz. **Shri Om Prakash Bhasin Foundation** on 22nd August, 1984.

The first five Trustees of the Foundation were Mrs. Vinod Bhasin, Prof. M.G.K. Menon, Mr. Shivy Bhasin, Mr. Hement Kumar Bhasin and a nominee from the State Bank of India (the custodians of the corpus of the Foundation).

The 1st SHRI OM PRAKASH BHASIN AWARDS for the year 1985 were presented to eminent Scientists and Technologists of India on 17-03-1986 by SHRI RAJIV GANDHI, HON'BLE PRIME MINISTER OF INDIA. In the subsequent years, the Awards have been presented by notable dignataries like SH. P.V. NARASIMHA RAO, DR MURLI MANOHAR JOSHI, SH. ATAL BEHARI VAJPAYEE, DR. A.P.J. ABDUL KALAM and others.

Apart from what has been said above, the objectives of the Foundation also include activities relating to promotion of, encouragement for, and assistance in the economic, technological and cultural development of the country, especially rural development and welfare/upliftment of the weaker sections of the society without any discrimination.

The Shri Om Prakash Bhasin Awards are being given in the following 5 disciplines:

1. **Agriculture** & **Allied Sciences** Including Animal Husbandry, Horticulture, Forestry, Fisheries, Bio-mass Production
2. **Biotechnology** including Modern Biology, Microbiology and Immunology
3. **Electronics** and **Information Technology**
4. **Engineering** including **Energy & Aero Space**
5. **Health & Medical Sciences**

NUMBER OF AWARDS

There are, at present, 5 Awards each year, in the fields mentioned above to ensure coverage of all the areas. **Each Award carries an amount of Rs. 1,00,000/-** (given in the form of a Banker's cheque) **with an appropriate PLAQUE and CITATION.**

ELIGIBILITY

- Any Citizen of India or Overseas Citizen of India engaged in scientific work in any of the fields mentioned above.
- There is no age limit. (No posthumous nominations will be considered).
- The Awards will normally be given for work primarily done within India and which is of relevance to India and other developing countries.
- New discoveries/inventions, particularly by young upcoming scientists, **would be given high consideration.**

PROCEDURE FOR NOMINATIONS

Nomination Papers for SHRI OM PRAKASH BHASIN AWARDS can be sponsored and forwarded by the following categories of persons:-

I) **Presidents** of approved scientific societies of all India character.

ii) **Vice-Chancellors and Deans of** Science, Engineering and Technology and Medical Faculties of Universities, and corresponding functionaries of Agricultural Universities.

iii) **Heads and Deans of** Faculties of institutions deemed to be of University status (viz. Indian Institute of Sciences, Bangalore, All India Institute of Medical Sciences, New Delhi, Post Graduate Institute of Medical Sciences, Chandigarh, Birla Institute of Technology Pilani, etc.)

iv) **Directors of IITs**

v) **Director-Generals** of major R&D Organizations: Defense Research and Development D.R.D.O., I.C.A.R., I.C.M.R.,

C.S.I.R., Indian Meteorological Department, Geological Survey of India etc.

vi) **Chairman of Commissions :** Atomic Energy, Space, Oil and Natural Gas, University Grants Commission etc.

vii) Members of the Planning Commission (NITI AAYOG)

viii) **Secretaries -** Departments of Science and Technology; Scientific and Industrial Research; Ocean Science; Space; Atomic Energy; Environment; Mines, Metals and Fuel; Energy; Petroleum and Chemicals; Agriculture and Animal Husbandry; Ministries of Health, Railways, Shipping and Transport, Information Technology, Non-Conventional Energy Sources.

ix) **Directors of -**
Bhabha Atomic Research Center (BARC), Indian Agricultural Research Institute (IARI), Bose Institute, Forest Research Institute, Indian Association for the Cultivation of Science, Physical Research Laboratory, Saha Institute of Nuclear Physics, Tata Institute of Fundamental Research (TIFR), all Council of Scientific and Industrial Research (CSIR) Laboratories, all Defence R&D Laboratories, all laboratories functioning under Indian Council of Agricultural Research (ICAR) and Indian Council of Medical Research. (ICMR).

x) **Directors of -** Co-operative Research Associations and of major private R&D Laboratories, as approved by the Department of Science and Technology.

xi) **Award Winners** of Shri Om Prakash Bhasin Foundation for Science and Technology.

xii) **The Judging Committee** constituted for the year can also draw up a list of eminent persons who may be specially requested to send nominations **on or before 30th November each year.**

HOW TO MAKE NOMINATIONS

Nominations should be on the prescribed NOMINATION FORM. This Form should be completed in all respects. Ten (10) sets of the NOMINATION PAPERS may be sent to:- Secretary, Shri Om Prakash Bhasin Foundation, K-5, Hauz Khas Enclave, Aurobindo Marg, New Delhi -110016, along with **at least** one set of reprints / preprints / reports pertaining to the R&D work and other documentary evidence particulary of the natonal gains achieved including patents taken / expoited.

The Nominations should be signed by the Sponsors and sent in a sealed envelope marked "CONFIDENTIAL". **Consent of the nominee should be obtained by the sponsors and so indicated on the prescribed Nomination Form.**

DEAD-LINE FOR RECEIPT OF NOMINATIONS AND VALIDITY

- The last date of receipt of nominations will be **30th November every year.**
- The NOMINATION PAPERS once received will be valid for consideration **3 times.**
- At present, 5 Award Winners are selected in a year.
- The awards presentation ceremony is organized once in 2 years.

The proposers / nominees should inform the FOUNDATION from time to time about the change (if any) in the address, phone nos. Email ID etc. **They are requested to update of their Nomination Papers with major contributions made by the Nominee after initial submission of nomination papers.**

SELECTION OF AWARD WINNERS

The Foundation will set up **Experts Committee(s)** of each of the **five fields** in which Awards are to be given.

These Experts Committee(s) will go through the nomination papers and their recommendations will be put up to a **Judging Committee** consisting of the Scientist Trustee of the Foundation as its Chairman and Chairmen of the individual Expert Committees-as its Members. The Judging Committee's recommendation will be put up to the BOARD OF TRUSTEES whose decision shall be final and binding on all concerned.

PRESENTATION OF AWARDS

The Awards will be formally presented to the Awardees at an "Awards Presentation Ceremony". The scientific contributions of the award winners will be read out during the Ceremony.

The Award Winners will be required to deliver and address / lecture to be called "SHRI OM PRAKASH BHASIN MEMORIAL LECTURE" on that occasion or elsewhere, on aspects relating to the scientific work for which he or she has been given the Award.

The Award Winners for the years 2018, 2019 and 2022 are being honored on 15.02.2024 in INSA Auditorium, New Delhi -110002

SHRI OM PRAKASH BHASIN FOUNDATION FOR SCIENCE & TECHNOLOGY

Present Board of Trustees



Shivy Bhasin
Trustee



Hemant Kumar Bhasin
Chairman



Samar Vikram Bhasin
Trustee



Dr. (Mrs.) Manju Sharma
Scientist Trustee

State Bank of India
Bank Trustee

OUR CHIEF GUEST



Prof. Murli Manohar Joshi

Born on January 5, 1934 Dr. Murli Manohar Joshi, was Professor of Physics in the University of Allahabad. He joined politics at an early age. He first became an M.P. in 1977 and was M.P. till 2019. He was Minister for Human Resource Development, Science and Technology and Ocean Development.

Dr. Joshi was awarded D.Sc. (Hon. Causa) by five Universities and Mahamahopadhyay and Vidya Vachaspati from Tirupati Samskrit Vidyapeetha and Vidya Vachaspati by Sampurnanand Samskrit Vishwavidyalaya. Dr. Joshi was also awarded Best Parliamentarian Award from Lok Sabha for the year 2009. In 2014 Dr. Joshi received Russia's highest civilian award "Order of Friendship"; Padma Vibhushan in 2017.

Dr. Joshi was elected as Hon. Acad. by the International Academy of Ecology, Man & Nature Protection Sciences, Russian Federation and was also elected Fellow of Russian Academy of Natural Sciences in 2001. He was also conferred Fellowship of National Academy of Sciences, India. Dr Joshi received Jawahar Lal Nehru Award by the Indian Science Congress in 1999 and also the award for life time services to science.

He participated in Inter-Parliamentary Union (IPU) Conference in 1977; delivered lecture on Science and Religion in Frankfurt, Germany, 1991; the European Hindu Conference held at Frankfurt, Germany, 1991; Conference on World Hindu in Washington, and International Youth Conference held at Chicago 1993 to mark the 100th Anniversary of Swami Vivekanand's address to the Parliament of Religions; International Seminar on Science and Religion held at Washington in 1993; Vishwa Hindu Mahasangh Conference at Varanasi in 1993; Hindu Conference in Durban, South Africa in 1995; also delivered lecture on Physics and Indian Philosophy in Durban 1995. An advocate of sublime Indian values and ancient scientific knowledge; and protagonist of holistic view of science and philosophy; Dr Joshi's address was read at the International Governmental Conference on Cultural Policies for development at Stockholm, 1988; Second Parliament of Science, Religion and Philosophy (World Philosopher Meet on Science, Spirituality & Development), Geneva, 1988; 8th Bose- Einstein Lecture on Science, Technology and Environment in 1998; UNESCO Conference, Paris and World Conference on Science, Budapest; delivered lectures on Sustainable Consumption at Bonn University, Germany; St. Petersburg University 2000 and Brazil Academy of Science, Rio-de-Janeiro in 2000-2001; led Indian delegation to G-77 Conference in Cuba 2001; UN Conference on Women at UNO; UN Summit on Children, New York 2002.

He spoke at the Commonwealth Science Council ministerial gathering in Limpopo Province, South Africa 2002. Dr. Ben Ngubaance, the present chairperson of Commonwealth Science Council and also the Cabinet Minister of Culture, Arts, Science and Technology in South Africa described his address as "landmark", giving a completely new vision on South cooperation and creating "a new paradigm" in development. He said that this address should be read by all the members of the Commonwealth and that he was going to distribute it throughout all the ministries in South Africa. Dr Joshi has more than 140 research papers published in various International and National Scientific Journals. More than a dozen students worked with him for their PhD and D.Sc. degrees.



SCIENTIST TRUSTEE

Dr. (Mrs.) MANJU SHARMA

Dr. Mrs. Manju Sharma (born 13 December 1940) is biotechnologist and has been science manager of several scientific research and policy-making bodies in India. She served as the Secretary to the Government of India, Department of Biotechnology,Ministry of Science and Technology and was awarded the Padma Bhushan in 2007. She is recipient of several awards. She is the fellow of NASI, NAAS and TWAS.

She played a significant role in establishing several institutions in the country, including the National Institute of Immunology, the National Institute of Plant Genome Research, the Biomass Research Centres at Lucknow and Maduraiand the Centre for DNA Fingerprinting and Diagnostics in Hyderabad.

LIFE AND WORK

Dr Manju Sharma is the grand-daughter of Madan Mohan Malaviya, an educationist and politician. She is married to Dr. Vinod Prakash Sharma, a malariologist and entomologist. Their son, Amit Sharma, specializes in protein crystallography.

She graduated from Lucknow University, winning the first rank and receiving the BirbalSahni Memorial Gold Medal. She earned her Ph.D. at Lucknow University in 1961 and then worked at Purdue University as a post-doctoral researcher. Collaborating with A. Carl Leopold and Richard Hall, her research on enhancing latex production through the use of ethereal oil found commercial application in Malaysian rubber plantations. She has been awarded honorary doctorate from many Indian Universities and in 2012 from Purdue University.

Dr. Manju Sharma founded the Indian Institute of Advanced Research in 2006, helped by endowments from the Puri Foundation for Education in India, to conduct research and provide higher education in Plant Sciences, Human Health, Biomolecular Medicine and Bioinformatics. She served as President and Executive Director until 2012.

Presently, after superannuation, she is serving the National Academy of Sciences India as Distinguished Woman Scientist. Initially, She was the President of the Academy. She has left outstanding marks in whatever position she worked.



OUR MENTOR

PROF. M.G.K. MENON, FRS

28 August, 1928 – 22 November, 2016

Mambillikalathil Govind Kumar Menon, FRS, also known as M. G. K. Menon, was a physicist and policy maker from India. He had a prominent role in the development of science and technology in India over four decades. One of his most important contributions was nurturing the Tata Institute of Fundamental Research, Mumbai,which his mentor Homi J. Bhabha founded in 1945.

He undertook experiments with cosmic rays to explore the properties of fundamental particles. He was actively involved in setting up balloon flight experiments, as well as deep underground experiments with cosmic ray neutrinos in the mines at Kolar Gold Fields. He was the President of the Indian Statistical Institute, the Vikram Sarabhai Fellow of the Indian Space Research Organisation, President of the National Academy of Sciences, India, Director of the Tata Institute of Fundamental Research, Mumbai (1966–1975), Chairman Board of Governors, Indian Institute of Technology, Bombay and chairman Board of Governors of the Indian Institute of Information Technology, Allahabad. He won the Abdus Salam Award, and was a member of the Pontifical Academy of Sciences. He was one of the most prominent scientists from the state of Kerala and was elected a Fellow of the Royal Society in May 1970. The asteroid7564 Gokumenon was named in his honour in late 2008.

Prof. M. G. K. Menon was educated at Jaswant College, Jodhpur, and the Royal Institute of Science, Bombay, before he moved to the University of Bristol for his PhD in elementary particle physics under the guidance of Nobel LaureateCecil F. Powell in 1953.

HE JOINED TIFR IN 1955 "ESSENTIALLY BECAUSE OF BHABHA", AND THE ASSOCIATION LASTED NEARLY FIVE DECADES. HE BECAME THE DIRECTOR OF THE INSTITUTE IN 1966, AT THE AGE OF 38, FOLLOWING BHABHA'S UNTIMELY DEATH. IN FACT, PROF. M. G. K. MENON BEGAN HANDLING THE AFFAIRS OF THE INSTITUTE EVER SINCE HE WAS 33, BECAUSE OF BHABHA'S INCREASING INVOLVEMENT WITH ATOMIC ENERGY PROGRAMME.

He won the Padmabhushan in 1968 and Padma Vibhushan in 1985.

PROF. M.G.K. MENON WAS THE CHAIRMAN OF ISRO IN 1972. HE WAS A MEMBER OF THE PLANNING COMMISSION (1982–1989), SCIENTIFIC ADVISER TO THE PRIME MINISTER (1986–1989) AND VICE-PRESIDENT, COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH (CSIR) (1989–1990). HE WAS ELECTED AS A MEMBER OF PARLIAMENT (RAJYASABHA) DURING 1990–96. THEN V.P. SINGH APPOINTED HIM AS THE MINISTER OF STATE FOR SCIENCE AND TECHNOLOGY AND EDUCATION. (1989).



TRIBUTE TO MY PARENTS

Late Shri Om Prakash Bhasin & Late Smt. Vinod Bhasin

My parents had noble personalities that are difficult to emulate but penning down some of my personal thoughts is my way of expressing my admiration towards these simple yet evolved humans; who impacted the lives of many.

My parents were simple, honest and humble people. Though quite different in personalities with my father being soft & quiet & my mother being practical & commanding; they shared a common vision of always helping others. When my father started his business under the title Mahallat Bhasin in Kuwait, my mother was by his side helping him out. Their hard work together established a very successful business very early. They had opened their hearts & their home to all during their journey from Mahallat Bhasin to Bhasin Co. and earned a reputation of being very helpful Indians, much loved & respected by all.

My father never lost touch with his roots and in his desire to honor those that bring pride to the country in the fields of Science and Technology; he wanted to set up a foundation. For this, he contacted Smt. Indira Gandhi but before this foundation could take form he passed on. My mother took on the mantle and established this foundation where we now work together to honor this great couple & all those great achievers who are helping our country take great strides forward.

The memory of numerous little things like my father teaching me how to drive in the hot Kuwaiti summer; the image of a well dressed, outwardly stern yet warm, caring and lovable mother; the carefree summer holidays where we would be awoken very early so that we could catch the cool breeze at the beach before the heat set in where once our car got stuck in the sand and how we all pushed it out, the car trip from Baghdad to London, me going with dad to the Emir's palace to wish Eid greetings, me massaging my parents feet & them asking me not to stop, all complete the picture of my parents. Their exemplary character and behavior gave me values which I hold dear.

In the end, I thank my father for visualizing this Trust and my mother for making my father's dreams come true. My tribute to my parents is from my heart, remembering our time together with joy while feeling their absence but above all with gratitude and saying thanks for being, simply my parents. With the blessings of my parents, I want to continue their good work.

I am quoting Desiderius Erasmus, ***"Give light and the darkness will disappear of itself."***

Hemant Kumar Bhasin

AWARD Winners 2018, 2019 & 2022

AGRICULTURE & ALLIED SCIENCES

(including Animal Husbandry, Horticulture, Forestry, Fisheries, Bio-mass Production)



Prof. M. Udayakumar
(Award Winner 2018)



Prof. Nagendra Kumar Singh
(Award Winner 2019)



Dr. Tilak Raj Sharma
(Award Winner 2022)

BIOTECHNOLOGY

(including Modern Biology, Microbiology and Immunology)



Prof. Anil Kumar Tyagi
(Award Winner 2018)



Prof. Asad Ullah Khan
(Award Winner 2019)



Prof. Paramjit Khurana
(Award Winner 2022)

ELECTRONICS & INFORMATION TECHNOLOGY



Prof. Anurag Sharma
(Award Winner 2018)



Prof. Swades De
(Award Winner 2019)



Prof. Bhargab B Bhattacharya
(Award Winner 2022)

ENGINEERING

(including Energy, & Aero Space)



Prof. V. Ramgopal Rao
(Award Winner 2018)



Prof. Devang V Khakhar
(Award Winner 2019)



Dr. Bijaya Ketan Panigrahi
(Award Winner 2022)

HEALTH & MEDICAL SCIENCES



Prof. Rohit Srivastava
(Award Winner 2018)



Prof. Tapas Kumar Kundu
(Award Winner 2019)



Dr. Giriraj Ratan Chandak
(Award Winner 2022)

AWARD Winners 2018, 2019 & 2022

AGRICULTURE & ALLIED SCIENCES

(including Animal Husbandry, Horticulture, Forestry, Fisheries, Bio-mass Production)

S. No.	Name of Recipient	Year of Award	Date of Function	Presented by
1	Dr. B. P. Pal	1985	19.03.86	Shri Rajiv Gandhi, Hon'ble Prime Minister of India
2	Dr. H. K. Jain	1986	23.05.87	Giani Zail Singh, Hon'ble President of India
3	Prof. V. L. Chopra	1987	30.05.88	Dr. S. D. Sharma Hon'ble President of India
4	Dr. G. S. Venkataraman	1988	30.03.89	Shri P. V. Narasimha Rao, Minister of External Affairs.
5	Dr. S. K. Sinha			
6	Prof. S. S. Parihar	1989	24.10.90	Prof. Madhu Dandavate, Minister of Finance
7	Dr. T. N. Khoshoo			
8	Prof. Prem Narain	1990	13.03.92	Shri Arjun Singh, Minister for Human Resources Development
9	Dr. R. S. Paroda	1991	20.05.92	Shri P. V. Narasimha Rao, Hon'ble Prime Minister of India
10	Dr. Y. L. Nene			
11	Prof. Anupam Verma	1992	15.05.93	Sh. Shivraj V. Patil, Hon'ble Speaker, Lok Sabha
12	Dr. K. L. Chadha			
13	Dr. M. R. Sethuraj	1993	11.04.95	Sh. P. N. Haksar, Chancellor, Jawahar Lal Nehru University
14	Dr. R. N. Sawhney			
15	Dr. S. N. Dwivedi	1994		
16	Dr. E. A. Siddiq			
17	Dr. M. S. Swaminathan	1995	18.02.97	Dr. Karan Singh, Member of Parliament
18	Prof. A. N. Purohit	1996	14.10.98	Dr. Murli Manohar Joshi, Minister for HRD and Science & Technology
19	Dr. S. L. Mehta	1997		
20	Prof. H. Shekar Shetty			
21	Dr. A. Seetharam	1998	21.06.99	Shri Atal Behari Vajpayee, Hon'ble Prime Minister of India
22	Dr. R. P. Sharma	1999	11.05.01	Shri. K C Pant, Dy Chairman, Planning Commission
23	Dr. Sushil Kumar	2000		
24	Dr. S. Nagarajan	2001	13.05.02	Shri. L. K. Advani, Minister of Home Affairs
25	Dr. Moti Lal Madan	2002-03	20.08.04	Shri. Bhairon Singh, Shekhawat, Hon'ble Vice President of India
26	Dr. Baldev Singh Dhillon	2006-07	15.11.11	Shri M. Hamid Ansari, Hon'ble Vice President of India
27	Dr. Deepak Pental	2008-09		
28	Prof. Akhilesh Kumar Tyagi	2010-11		
29	Dr. Vijai Pal Singh	2012-13	01.11.14	Prof. M.G.K. Menon, FRS Former Minister for Science & Technology
30	Dr. H.S. Gupta	2014	01.11.16	BHARAT RATNA Prof. C.N.R. Rao, FRS
31	Dr. Subanna Ayappan	2015		
32	Dr. Trilochan Mohapatra	2016	01.11.18	Dr. Anil Kakodkar, Padma Vibhushan President, The National Academy of Sciences India Allahabad
33	Dr. Ashok Kumar Singh	2017		
34	Prof. M. Udayakumar	2018	15.02.2024	Dr. Murli Manohar Joshi Former Minister for HRD and Science & Technology
35	Prof. Nagendra Kumar Singh	2019		
36	Dr. Tilak Raj Sharma	2022		

SHRI OM PRAKASH BHASIN AWARD (2018)

AGRICULTURE & ALLIED SCIENCES

(including Animal Husbandry, Horticulture, Forestry, Fisheries, Bio-mass Production)



Prof. M. Udayakumar

Professor M. Udayakumar, (University of Agricultural Sciences, GKVK, Bengaluru), After completing Ph.D. from the Academy of Sciences, USSR in 1971, Professor M. Udayakumar joined the University of Agricultural Sciences, GKVK, Bengaluru, to become a full Professor in 1983. He nurtured the Department of Crop Physiology and helped it achieve national and international recognition. He was an institution builder and developed several unique facilities like National Facility for Stable Isotope Research, Phenotyping Facility and Transgenic Facility. He has been a member of several national level committees and deeply involved in GMO Regulatory Authorities. He was also instrumental in establishing international collaborations with leading institutions in Philippines, Australia and the Netherlands. Through his research, he established an active school of drought research and released varieties like Daksha in Karnataka region. For his excellent work, Professor Kumar was recognized with several distinctions including Professor RD Asana Medal, ICAR Best Teacher Award, Coordinator of ICAR-Niche Area of Excellence, JC Bose National Fellow, and NASI Senior Scientist and elected as fellow of all three national science academies and the National Academy of Agricultural Sciences.

Professor Udayakumar worked on phenotyping technologies leading to generation of genetic and genomic resources for crop improvement. He validated function of genes and QTLs in rice associated with water use efficiency, roots and canopy cover. Introgression of physiological traits resulted in development of a rice cultivar suitable for semi-irrigated aerobic cultivation. Transgenics of groundnut expressing several regulatory genes showed superior phenotype for stress adaptation. Also, co-expressing genes strategy was used in rice and groundnut.

These investigations provided opportunity to train a large number of researchers and generate a large number of high quality research papers.

Shri Om Prakash Bhasin Foundation is happy in conferring on him the award in the field of AGRICULTURE & ALLIED SCIENCES for the year 2018.

SHRI OM PRAKASH BHASIN AWARD (2019)

AGRICULTURE & ALLIED SCIENCES

(including Animal Husbandry, Horticulture, Forestry, Fisheries, Bio-mass Production)



Prof. Nagendra Kumar Singh

Prof. Nagendra Kumar Singh has made seminal contributions in decoding the genomes of rice, wheat, pigeonpea, tomato, jute and mango and their utilization in gene discovery and molecular breeding of crop varieties. He has led large multi-institutional research projects involving national and international partners and published 405 papers on his research in high-impact journals including Nature and Science with over 29,500 citations and h-index of 79. His original research contributions include linkage mapping and gene discovery for yield, Basmati quality and salt-tolerance traits in rice; seed proteins, bread-making quality and drought tolerance in wheat, early-maturity and dwarf plant type in pigeonpea, fiber yield and quality in jute and fruit-quality traits in mango.

He has developed and patented a single-copy genes based 50K SNP chip array for DNA fingerprinting, genetic analysis and molecular breeding applications in rice, which has been licensed for commercial genotyping services. He has developed similar 62K SNP chip of pigeonpea and 80K SNP chip of mango, which have been utilized for genetic studies.

He has collected and conserved over 1000 accessions of wild rice from different states of India and used these to identify genes for flooding and salinity tolerance. He has led the release of 14 high-yielding climate-resilient varieties of rice and four early-maturity dwarf varieties of pigeonpea for cultivation.

Prof. Singh has been involved in research management, teaching, curriculum development and guided more than 50 students for postgraduate degrees. His research work is being used by geneticists plant breeders for developing improved varieties of cereals and pulses for enhanced food and nutritional security.

Shri Om Prakash Bhasin Foundation is happy in conferring on him the award in the field of AGRICULTURE & ALLIED SCIENCES for the year 2019.

SHRI OM PRAKASH BHASIN AWARD (2022)

AGRICULTURE & ALLIED SCIENCES

(including Animal Husbandry, Horticulture, Forestry, Fisheries, Bio-mass Production)



Dr. Tilak Raj Sharma

The outstanding research contributions of Dr. Tilak Raj Sharma are in the areas of genomics and plant disease resistance. He has contributed extensively in the improvement of rice for over 30 years. For the first time, he has identified, mapped and cloned a new rice blast resistance gene Pi54 from a landrace of rice.

In this process of cloning blast resistance gene, he has developed DNA makers tightly linked to Pi54 gene, which are being used by the rice breeders to transfer this gene in many rice varieties in India and abroad using marker assisted selection. He has also cloned and characterized two more novel rice blast resistance genes Pi54rh and Pi54of from wild species of rice which provides broad spectrum resistance to rice blast pathogen and can be used in rice improvement breeding programme.

He mapped and characterized a major QTL, qSBR11-1 for Sheath blight resistance in rice which has already been used in rice breeding. He was associated in the development of three blast resistant rice varieties Pusa 1637, HPR2880, and Pusa Samba1850. He was associated with the decoding of complete genomes of rice, tomato, pigeonpea, jute, mango, tea and many plant pathogens and identified many agriculturally important DNA markers, genes and promoters.

Dr. Sharma has guided 30 Ph D students and published more than 200 research papers in international journals and written two books. He has seven Indian patents to his credit. The unique research contributions of Dr. Sharma will help the resource poor rice growing farmers of the country and will also help in controlling environmental pollution caused by the fungicides used for the control of blast and sheath blight diseases of rice.

For his significant research contributions Dr. Sharma has been honored with many awards and is a fellow of INSA, IASc, NASI and NAAS.

Shri Om Prakash Bhasin Foundation is happy in conferring on him the award in the field of AGRICULTURE & ALLIED SCIENCES for the year 2022.

AWARD Winners 2018, 2019 & 2022

BIOTECHNOLOGY

(including Modern Biology, Microbiology and Immunology)

S. No.	Name of Recipient	Year of Award	Date of Function	Presented by
1	Dr. G. Padmanaban	1985	17.03.86	Shri Rajiv Gandhi, Hon'ble Prime Minister of India
2	Dr. K.K.G. Menon	1986	23.05.87	Giani Zail Singh, Hon'ble President of India
3	Dr. H. Y. Mohan Ram			
4	Dr. V. Jagannathan	1988	30.03.89	Shri P. V. Narasimha Rao, Minister of External Affairs
5	Prof. V. Sasisekharan	1989	24.10.90	Prof. Madhu Dandavate, Minister of Finance
6	Prof. Sipra Guha-Mukherjee			
7	Dr. (Mrs.) Indira Nath	1990	13.03.92	Shri Arjun Singh, Minister for Human Resources
8	Dr. Jyotimoy Das			
9	Dr. S. Ramachandran	1991	20.05.92	Shri. R V. Narasimha Rao Hon'ble Prime Minister of India
10	Prof. A. K. Sharma	1992	15.05.93	Sh. Shivraj Patil, Hon'ble Speaker, Lok Sabha
11	Prof. Avadhesha Surolia	1993	11.04.95	Sh. P. N. Haksar, Chancellor, Jawahar Lal Nehru University
12	Prof. Obaid Siddiqui			
13	Dr. C. R. Bhatia	1994		
14	Prof. H. K. Das			
15	Prof. Asis Dutta	1995	18.02.97	Dr. Karan Singh, Member of Parliament
16	Dr. Brahm S. Srivastava			
17	Prof. P.K. Maitra	1996	14.10.98	Dr. Murli Manohar Joshi, Minister for HRD and Science & Technology
18	Dr. Lalji Singh			
19	Dr. S. K. Basu	1997		
20	Prof. D. Balasubramanian			
21	Dr. (Mrs.) Manju Sharma	1998	21.06.99	Shri. Atal Behari Vajpayee, Hon'ble Prime Minister of India
22	Dr. C. M. Gupta	1999	11.05.01	Shri. K. C. Pant, Dy. Chairman, Planning Commission
23	Prof. M. Vijayan	2000		
24	Prof. Partha R Majumder	2001	13.05.02	Shri. L. K. Advani, Minister of Home Affairs
25	Dr. V.S. Chauhan	2002	20.08.04	Shri. Bhairon Singh Shekhawat, Hon'ble Vice President of India
26	Dr. M.R.S. Rao	2003		
27	Dr. J. Gowrishankar	2004	26.10-06	Dr. A. P J. Abdul Kalam, Hon'ble Vice President of India
28	Dr. Seyed E. Hasnain	2005		
29	Prof. Samir K. Brahmachari	2008-09	15.11.11	Shri M. Hamid Ansari, Hon'ble Vice President of India
30	Dr. Kanury V.S. Rao	2010-11		
31	Dr. Navin Khanna	2012	01.11.14	Prof. M.G.K. Menon, FRS Former Minister for Science & Technology
32	Dr. (Ms.) Chandrima Shaha	2014	01.11.16	BHARAT RATNA Prof. C.N.R. Rao, FRS
33	Prof. (Dr.) M.K. Bhan	2015		
34	Prof. Jitendra Paul Khurana	2016	01.11.18	Dr. Anil Kakodkar, Padma Vibhushan President, The National Academy of Sciences India Allahabad
35	Dr. Amit Prakash Sharma	2017		
36	Prof. Anil Kumar Tyagi	2018	15.02.2024	Dr. Murli Manohar Joshi Former Minister for HRD and Science & Technology
37	Prof. Asad Ullah Khan	2019		
38	Prof. Paramjit Khurana	2022		

SHRI OM PRAKASH BHASIN AWARD (2018)

BIOTECHNOLOGY

(including Modern Biology, Microbiology and Immunology)



Prof. Anil Kumar Tyagi

Prof. Tyagi has pursued his research with a focus on developing strategies, knowledge and tools relevant to the control and amelioration of tuberculosis. Some of the major achievements of his research work are summarized below. Dr. Tyagi's group has contributed significantly to the understanding of transcriptional machinery and gene expression in mycobacteria. It was demonstrated that most of the mycobacterial promoter elements function poorly in *E. coli* and differ from their *E. coli* counterparts with respect to their -35 regions and the corresponding recognition domain of sigma factor of RNA polymerase. These studies have provided a better understanding of the molecular basis of slow growth rate of *M. tuberculosis* and an explanation for the poor expression of mycobacterial genes in *E. coli*.

Dr. Tyagi's group has developed a repertoire of vectors, for the isolation of promoters, for construction of expression libraries and an integration-proficient vector system for stable expression of genes in mycobacteria, which have proved to be extremely useful to several investigators in genetic manipulations of mycobacteria. Dr. Tyagi's group has also established the importance of many mycobacterial proteins such as VirS, SapM, MPtpA, MPtpB, MbtE, BfrA and BfrB, in the establishment and progression of disease and has identified several new lead molecules for the development of more efficacious therapeutic interventions against tuberculosis. Dr. Tyagi's group worked extensively on the development of candidate vaccines against TB. His group has generated several priming vaccines based on (i) recombinant BCG such as rBCG.85C, rBCG.acr, rBCG.SOD etc. and (ii) auxotrophic *M. tuberculosis* strains including RvΔmmsb and RvΔbioA. His group also developed various booster TB vaccines based on (i) DNA vaccines including DNA.acr, DNA.ESAT6, DNA.SOD etc. and (ii) viral-vectored vaccine, namely, rMVA.acr. Some of these vaccines including **rBCG.85C, DNA.acr** and **rMVA.acr** exhibited superior protection over BCG against *M. tuberculosis* challenge in animal models. Besides, in a collaborative work, with Dr. Tyagi as the Principal Investigator, *Mycobacterium indicus pranii*, known for its unique immunomodulatory properties, was completely sequenced and annotated and was the first new bacterial genome sequence to be published from India.

Shri Om Prakash Bhasin Foundation is happy in conferring on him the award in the field of BIOTECHNOLOGY for the year 2018.

SHRI OM PRAKASH BHASIN AWARD (2019)

BIOTECHNOLOGY

(including Modern Biology, Microbiology and Immunology)



Prof. Asad Ullah Khan

Prof. Asad U Khan has graduated in Chemistry and did his post graduate in Biotechnology and obtained a doctorate in Biochemistry from Aligarh Muslim University and later proceeded for his post doc in RUTGERS University New Jersey, USA during 2000-2003 for three years. Currently he is Professor and Ex-Coordinator Biotechnology Unit, AMU, Aligarh India. He has been involved in teaching microbiology at post-graduate and doctoral level for last 25 years and has guided 29 PhDs, 17 MDs/MPhil and >65 Masters dissertations in the area of antibiotic resistance and therapy. He has published over 267 research articles in the area of antimicrobial resistance mechanism in peer reviewed high impact **Q1/Q2** journals with 15000 citations and **H-Index 60** which have been recognized in the scientific and public domain. His work has been cited in **Nature, Science, Cell, EMBO J, JBC** etc. His research findings on antimicrobial resistance have been covered by both international electronic and print media, and twice broadcast by French television. Elected Fellow Royal Society of Chemistry (UK) (2018); Recipient of INSA-International Collaborating/Bilateral Exchange Programme Award-(2017); Fellow of Biotech Research Society, India (2014); Fellow of Indian Academy of Microbiological Sciences (2014); Recipient of National Bioscience Award for Career Development" of Government of India, DBT (2012); "First Recipient" of Outstanding Research Award of the Year (2014) conferred by AMU; Recipient of Wockkardt Excellence Award of 2018 and Recipient of "Visitors Award" of President of India (2019) , Malviya Memorial Award of BRSI, 2020; TATA Innovation Fellowship of Ministry of Science and Technology GOI; Recipient of DBT-CREST Award to avail fellowship in France to work as Visiting scientist. Appointed as Adjunct Professor in University of Catolica San Antonio de Murcia (UCAM) Spain for the period of two years. Appointed as Visiting Professor in University Malaysia Terengganu, Malaysia for the period of two years w.e.f May 15, 2019. He is member of several international committees. Appointed as expert member of steering committee of UK Academy of Medical Sciences and Hamied Foundation UK-India AMR Programme.

Shri Om Prakash Bhasin Foundation is happy in conferring on him the award in the field of BIOTECHNOLOGY for the year 2019.

SHRI OM PRAKASH BHASIN AWARD (2022)

BIOTECHNOLOGY

(including Modern Biology, Microbiology and Immunology)



Prof. Paramjit Khurana

Professor Paramjit Khurana has contributed extensively in the area of Seribiotechnology and Wheat Biotechnology. In wheat, a systems biology approach has been used to investigate the molecular mechanisms regulating auxin-induced somatic embryogenesis. She has done pioneering work on genetic transformation of wheat and mulberry.

The development of wheat transgenics over-expressing potato proteinase inhibitor gene conferred tolerance against the Cereal Cyst Nematode in *T. durum*, and that of HVA1 over-expression imparted tolerance towards salinity and drought in *T. aestivum*. Doubled haploid technology to produce transgenics to avoid segregation of introduced traits in wheat has been successfully demonstrated by her group. Transgenics in mulberry have been raised for drought, salinity and biotic stress with HVA1 and osmotin genes, respectively, and transferred to the Central Sericulture Research & Training Institute (CSRTI) at Mysore, and University of Agricultural Sciences (UAS), Bangalore, for field evaluation.

In addition, she has also done pioneering work on lipopolysaccharide (LPS)-mediated cellular recognition during legume-*Rhizobium* symbiosis and cell-to-cell communication by use of impermeant macromolecules in living cells. She has sequenced the complete chloroplast genome and nuclear of Indian mulberry, and was actively associated with sequencing of the rice, tomato and wheat genomes as part of the International Genome Sequencing Consortia. Presently, her lab is focusing on understanding the molecular basis of heat tolerance in wheat using comparative genomic approaches.

More than a dozen genes have been functionally validated for enhancing thermotolerance in heterologous systems. Various mechanism associated with acquisition of thermotolerance and long-term adaptation to heat stress are also being explored.

Shri Om Prakash Bhasin Foundation is happy in conferring on him the award in the field of BIOTECHNOLOGY for the year 2022.

AWARD Winners 2018, 2019 & 2022

ELECTRONICS AND INFORMATION TECHNOLOGY

S. No.	Name of Recipient	Year of Award	Date of Function	Presented by
1	Prof. M.G.K. Menon	1985	17.03.86	Shri Rajiv Gandhi, Hon'ble Prime Minister of India
2	Dr. R V. S. Rao	1986	23.05.87	Giani Zail Singh, Hon'ble President of India
3	Dr. A. P. Mitra	1987	30.05.88	Dr. S. D. Sharma, Hon'ble Vice President of India
4	Prof. R. Narasimhan	1988	30.03.89	Sh P.V. Narasimha Rao, Minister of External Affairs
5	Dr. N. Seshagiri	1989	24.10.90	Prof. Madhu Dandavate, Minister of Finance
6	Dr. S. Ramani	1990	13.03.92	Shri Arjun Singh, Minister for Human Resources Development
7	Shri. Sam Pitroda	1993	15.05.93	Shri. Shivraj Patil, Hon'ble Speaker, Lok Sabha
8	Dr. V. Rajaraman			
9	Dr. G. M. Cleetus	1994	11.04.95	Sh. R N. Haksar, Chancellor, Jawahar Lal Nehru University
10	Dr. Surender Prasad			
11	Prof. B. L. Deekshatulu	1995	18.02.97	Dr. Karan Singh, Member of Parliament
12	Dr. Neelakanthan	1996	14.10.98	Dr. Murli Manohar Joshi, Minister for HRD and Science & Technology
13	Dr. D. Dutta Majumder			
14	Dr. Surendra Pal	1997		
15	Dr. Shankar K. Pal	1998	21.06.99	Shri. Atal Bihari Vajpayee Hon'ble Prime Minister of India
16	Dr. K. G. Narayanan	1999	11.05.01	Shri. K C Pant, Dy Chairman, Planning Commission
17	Dr. Vijay P. Bhatkar	2000		
18	Prof. Lalit Mohan Patnaik	2001	13.05.02	Shri. L. K. Advani, Minister of Home Affairs
19	Dr. Amitava Sen Gupta	2002-03	20.08.04	Shri. Bhairon Singh Shekhawat Hon'ble Vice President of India
20	Dr. Ashok Jhunjhunwala	2004-05	26.10.06	Dr. A. P. J. Abdul Kalam, Hon'ble President of India
21	Dr. V. Narayana Rao	2006-07	15.11.11	Shri M. Hamid Ansari Hon'ble Vice President of India
22	Prof. Shiban Kishen Koul	2008-09		
23	Prof. Bidyut Baran Chaudhuri	2011	01.11.14	Prof. M.G.K. Menon, FRS Former Minister for Science & Technology
24	Prof. Bishnu R Pal	2013		
25	Prof. Subrat Kar	2014	01.11.16	BHARAT RATNA Prof. C.N.R. Rao, FRS
26	Prof. Ajoy Ghatak	2015		
27	Prof. Manav Bhatnagar	2016	01.11.18	Dr. Anil Kakodkar, Padma Vibhushan President, The National Academy of Sciences India Allahabad
28	Prof. Anirban Pathak	2017		
29	Prof. Anurag Sharma	2018	15.02.2024	Dr. Murli Manohar Joshi Former Minister for HRD and Science & Technology
30	Prof. Swades De	2019		
31	Prof. Bhargab B Bhattacharya	2022		

SHRI OM PRAKASH BHASIN AWARD (2018)

ELECTRONICS AND INFORMATION TECHNOLOGY



Prof. Anurag Sharma

Born on May 7, 1955 at Bareilly (Uttar Pradesh), Prof. Anurag Sharma did his post graduate education at IIT Delhi obtaining Ph.D. in 1979. He joined, in 1980, the Physics Department , IIT Delhi. He is currently an Emeritus Professor in the Optics and Photonics Centre, IIT Delhi.

Professor Sharma has made several significant contributions in the area of modelling and analysis of optical waveguides and imaging devices and components developing several new techniques for propagation of optical rays and waves.

In his early career, he developed new methods and algorithms for analysis and design of gradient-index optical systems. These have improved the computational efficiency of raytracing by at least two orders of magnitude. The method was immediately adopted by the international community and it continues to be part of all commercial optical design softwares even today.

He has developed a new method for total field propagation through guiding structures, which is numerically more efficient than the existing beam propagation method. Subsequently in 2004, he developed an entirely new concept in wide-angle beam propagation. Such propagation schemes have become important in view of continuous effort in miniaturization of devices and development of reflecting devices such as fiber Bragg gratings.

He has also developed the use of the variational method for single mode waveguides and optical fibers. Over the four decades he has analyzed various waveguides which came up due to developments in technology. Beginning with the diffused channel waveguides in the 1980s, he has continued innovations in the method to deal with modern microstructured fibers as well as silicon photonic waveguides.

For his outstanding contributions, he has been honoured with many awards including the Shanti Swarup Bhatnagar Prize and he is a Fellow of INSA, NASI, IASc, INAE and the Optical Society of America.

Shri Om Prakash Bhasin Foundation is happy in conferring on him the award in the field of ELECTRONICS & INFORMATION TECHNOLOGY for the year 2018.

SHRI OM PRAKASH BHASIN AWARD (2019)

ELECTRONICS AND INFORMATION TECHNOLOGY



Prof. Swades De

Dr. Swades De is a H.A.G. professor of Electrical Engineering and an Institute Chair Professor at IIT Delhi. He has widely contributed through cross-layer optimization research in Communication Networks. His outstanding research highlights include: Pioneering experimental demonstration of RF energy routing and optimizations of RF energy transfer aided information relaying towards green communications; Pioneering proposal and proof-of-concept of integrated cellular and ad hoc relaying for load balancing, network layer cooperation, split handover, and cognitive multi-homing techniques for capacity maximizing cellular networks; Fundamental contributions on deep cross-layer optimization for resource efficiency and energy sustainable communications in low-power wireless networks and multimedia communications.

To date, he has published over 250 articles in top journals conferences, a few book chapters, an edited book, 1 US/EU/WO patent (monetized), and filed 11 Indian patents and 6 US/EU/World patents. His publications have been widely cited, with over 5100 Google Scholar citations.

Prof. De currently serves as an Editor for IEEE Transactions on Wireless Communications, IEEE Transactions on Vehicular Technology, and IEEE Wireless Communications Magazine, and as an Area Editor for Elsevier Computer Communication. Among his numerous professional recognitions, the recent ones include IETE Ramlal Wadhwa Award (2019), Abdul Kalam Technology Innovation National Fellowship (2021-2026), IEEE Vehicular Technology Society Distinguished Lecturer (2022-2024), Best Editor Award – IEEE Wireless Communications Letters (2022), and Exemplary Editor Award – IEEE Communications Letters (2018, 2021, 2022). He is a Fellow of INAE, Fellow of INSA, Fellow of NASI, Fellow of The Institute of Engineers, India, Fellow of IET, UK, Fellow of IETE, India.

Shri Om Prakash Bhasin Foundation is happy in conferring on him the award in the field of ELECTRONICS & INFORMATION TECHNOLOGY for the year 2019.

SHRI OM PRAKASH BHASIN AWARD (2022)

ELECTRONICS AND INFORMATION TECHNOLOGY



Prof. Bhargab B Bhattacharya

Bhargab B. Bhattacharya had been on the faculty of Indian Statistical Institute, Kolkata, for more than three decades. After retirement, he served as Distinguished Visiting Professor at IIT Kharagpur and at NIT Rourkela until 2023. Earlier, he worked as Visiting Professor at the University of Nebraska-Lincoln, and Duke University, USA, at the University of Potsdam, Germany, and at Tsinghua University, Beijing, China. He received the B.Tech. and M.Tech. degrees in Radiophysics and Electronics, and the PhD degree in Computer Science, all from the University of Calcutta.

Dr. Bhattacharya's contributions encompass the domains of VLSI design and test, fault-tolerance, image analysis, and microfluidic lab-on-chips. They have significantly influenced the design paradigm of integrated circuits, which lie at the heart of every electronic device, be it a microprocessor, a communication chip, a microfluidic device or medical equipment.

During the last decade, Dr. Bhattacharya, along with his team, developed computer-aided tools for implementing bio-assays on droplet-based or on flow-based microfluidic platforms, thus solving a long-standing open question in the optimization of such chips. These contributions have led to low-cost design of microfluidic devices for various healthcare applications such as biochemical sample preparation, polymerase chain reaction, drug discovery, and for conducting point-of-care (PoC) pathological tests. The software tools developed by this team enable the integration of lab-on-chips with real-time image processing for fast diagnostic purposes. Dr. Bhattacharya has published more than 400 technical articles, authored five books, and he holds one Indian and ten US Patents.

Dr. Bhattacharya is the recipient of the VASVIK Industrial Research Award for Electronic Sciences and Technology (1999); India Semiconductor Association TechnoMentor Award (2008); INAE Outstanding Teachers Award (2014); IEI-IEEE Joint Award for Engineering Excellence (2018). He was named INAE Chair Professor (2016 - 2018) and AICTE-INAE Distinguished Visiting Professor (2018 - 2020). He is Fellow of the Indian National Academy of Engineering, Fellow of the National Academy of Sciences (India), Fellow of the Asia-Pacific Artificial Intelligence Association (AAIA), and Fellow of the IEEE.

Shri Om Prakash Bhasin Foundation is happy in conferring on him the award in the field of ELECTRONICS & INFORMATION TECHNOLOGY for the year 2022.

AWARD Winners 2018, 2019 & 2022
ENGINEERING including ENERGY & AERO SPACE

S. No.	Name of Recipient	Year of Award	Date of Function	Presented by
1	Dr. Raja Ramanna	1985	17.03.86	Shri Rajiv Gandhi, Hon'ble Prime Minister of India
2	Prof. M. M. Sharma			
3	Dr. Satish Dhawan			
4	Sh. S. Roy Choudhary			
5	Dr. N. Tata Rao	1986	23.05.87	Giani Zail Singh, Hon'ble President of India
6	Dr. S. Varadarajan			
7	Dr. L. K. Doraiswami			
8	Dr. A. P. J. Abdul Kalam			
9	Prof. A. K. N. Reddy	1987	30.05.88	Dr. Shankar Dayal Sharma, Hon'ble Vice President of India
10	Prof. S. C. Dutta Roy			
11	Sh. R. M. Vasagam			
12	Dr. George Joseph			
13	Sh. P. R. Roy	1988	30.03.89	Sh. P. V. Narasimha Rao, Hon'ble Minister of External Affairs
14	Dr. R. K. Bhandari			
15	Dr. K. Kasturirangan			
16	Dr. V. S. Arunachalam	1989	24.10.90	Prof. Madhu Dandavate, Hon'ble Minster of Finance
17	Prof. K. L. Chopra			
18	Sh. J. C. Bhattacharya			
19	Sh. P. Banerjee			
20	Sh. N. B. Prasad	1990	13.03.92	Shri Arjun Singh, Hon'ble Minister of H.R.D.
21	Dr. K. H. Gharda			
22	Dr. R. A. Mashelkar			
23	Prof. M. A. Ramaswamy			
24	Prof. Rajinder Kumar	1991	20.05.92	Sh. P. V. Narashimha Rao, Hon'ble Prime Minster of India
25	Dr. T. K. Bose	1991	20.05.92	Sh. R V. Narashimha Rao, Hon'ble Prime Minster of India
26	Sh. M. S. Vasudeva	1992	15.05.93	Sh. Shivraj V. Patil, Hon'ble Speaker, Lok Sabha
27	Sh. Paul Ratnasamy			
28	Sh. P. Ramachandran			
29	Dr. R. Balakrishan			
30	Dr. P. Rama Rao	1993	11.04.95	Sh. P. N. Haksar, Chancellor, Jawahar Lal Nehru University
31	Prof. U. R. Rao			
32	Dr. H. S. Mukunda	1994		
33	Dr. A. V. Rama Rao			
34	Dr. K. K. Mahajan			

(Cont'd...)

35	Dr. (Mrs) Jyoti Parikh	1995	18.02.97	Dr. Karan Singh, Hon'ble Member of Parliament
36	Dr. S. Sivaram			
37	Dr. G. Madhvan Nair			
38	Sh. P.S. Goel			
39	Dr. M.R. Srinivasan	1996	14.10.98	Dr. Murli Manohar Joshi, Minister for HRD and Science & Technology
40	Dr. T.S.R. Prasada Rao			
41	Dr. C.G. Krishnadas Nair			
42	Dr. K.S. Narasimhan	1997		
43	Dr. K. N. Shankara			
44	Dr. P. R. Rao	1998	21.06.99	Shri Atal Bihari Vajpayee, Hon'ble Prime Minister of India
45	Dr. Placid Rodriguez	1999	11.05.01	Shri. K C Pant, Dy Chairman, Planning Commission
46	Dr. T. Ramasami	2000		
47	Prof. S. P. Sukhatme	2001	13.05.02	Shri L. K. Advani, Minister of Home Affairs
48	Dr. E. Sreedharan	2002-03	20.08.04	Shri. Bhairon Singh, *Shekhawat*, Hon'ble Vice President of India
49	Dr. Prem Chand Pandey	2004-05	26.10.06	Dr. A. P. J. Abdul Kalam, Hon'ble President of India
50	Dr. Kota Harinarayana	2006-07	15.11.11	Shri M. Hamid Ansari Hon'ble Vice President of India
51	Prof. Narinder Kumar Gupta	2008-09		
52	Dr. Baldev Raj	2011	01.11.14	Prof. M.G.K. Menon, FRS Former Minister for Science & Technology
53	Dr. G. Sundararajan	2013		
54	Prof. Bhim Singh	2014	01.11.16	BHARAT RATNA Prof. C.N.R. Rao, FRS
55	Prof. (Ms.) Sneh Anand	2015		
56	Sh. Rajaram Singh Yadav	2017	01.11.18	Dr. Anil Kakodkar, Padma Vibhushan President, The National Academy of Sciences India Allahabad
57	Prof. V. Ramgopal Rao	2018	15.02.2024	Dr. Murli Manohar Joshi Former Minister for HRD and Science & Technology
58	Prof. Devang Vipin Khakhar	2019		
59	Dr. Bijaya Ketan Panigrahi	2022		

SHRI OM PRAKASH BHASIN AWARD (2018)

ENGINEERING including ENERGY & AERO SPACE



Prof. V. Ramgopal Rao

Prof. V. Ramgopal Rao is currently the Group Vice-Chancellor for the Birla Institute of Technology & Science (BITS) Pilani campuses located in Pilani, Hyderabad, Goa, Dubai and Mumbai. Prior to joining the BITS Group in 2023, Prof. Rao had served as the Director of IIT Delhi for 6 years during 2016-2021 and as a Chair Professor for Nanoelectronics at both IIT Bombay and IIT Delhi. Prof. Rao is an internationally acclaimed Nanoelectronics researcher with over 500 research papers and over 50 patents, which include 20 issued US patents. 15 of his patents have been licensed to industries for commercialization. The IP on CMOS-SoC applications developed in his group is now used in 100's of millions of ICs sold all over the world. Prof. Rao is a co-founder of two deep technology startups at IIT Bombay (Nanosniff & Soilsens) which have successful commercial products in the market. Besides his education and research activities, Prof. Rao is also well known for establishing major Nanoelectronics Programmes in India. For his research accomplishments, Dr. Rao has been elected a Fellow of IEEE, a Fellow of The World Academy of Sciences (TWAS), the Indian National Academy of Engineering (INAE), the Indian Academy of Sciences (IASc), the National Academy of Sciences (NASI) & the Indian National Science Academy (INSA). 52 Ph.D. students have graduated so far under his supervision and are working in leading academic institutions, semiconductor industries all over the world, including in India.

Prof. Rao's research and leadership contributions have been recognized with over 35 awards and honors in the country and abroad. He is a recipient of three honorary doctorates. The recognitions Prof. Rao received include the Shanti Swarup Bhatnagar Prize in Engineering Sciences, Infosys Prize, IEEE EDS Education Award (the highest international award bestowed by IEEE Electron Devices Society for Education) and many others. Prof. Rao serves on the Editorial Advisory Boards of several leading international journals such as the ACS Nano Letters, AIP Applied Physics Reviews, IEEE Journal on Flexible Electronics etc. Dr. Rao has delivered over 200 Plenary, key-note and invited lectures all over the world.

Besides his regular teaching & research activities at IIT Delhi, Prof. Ramgopal Rao serves as a Chairman for multiple committees at the National level related to Education, Research and Innovation programmes in India. He is currently the Chairperson, Council of Management (BoG) for the Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) in Bangalore and Chairperson, Board of Governors for the National Institute of Food Technology Entrepreneurship and Management (NIFTEM) in Haryana, two premier institutions of Govt of India.

Shri Om Prakash Bhasin Foundation is happy in conferring on him the award in the field of ENGINEERING INCLUDING ENERGY & AERO SPACE for the year 2018.

SHRI OM PRAKASH BHASIN AWARD (2019)

ENGINEERING including ENERGY & AERO SPACE



Prof. Devang V Khakhar

Prof. Devang Khakhar is currently Professor of Chemical Engineering at the Indian Institute of Technology Bombay. Prof. Khakhar's research interests include the mechanics of granular materials and polymer processing. He has published over 130 papers in these areas.

In addition to fundamental contributions, some of the work has been transferred to industry. For his research achievements, Prof. Khakhar has been accorded several major awards, which include the Shanti Swarup Bhatnagar Prize (1997) and the Swarnajayanti Fellowship (1998).

He is a Fellow of the Indian National Academy of Engineering, the Indian National Science Academy, the Indian Academy of Sciences and the National Academy of Sciences, India. He received the Distinguished Alumnus Award from IIT Delhi in 2008. Prof. Khakhar is also a recipient of IIT Bombay's "Excellence in Teaching Award" and the "Mathur Award for Research Excellence".

He has served as Professor-in-Charge of IIT Bombay's Continuing Education Program from 2001-02, as Head of the Department of Chemical Engineering from 2002 to 2004, and the Dean of Faculty Affairs from 2005 to 2008. He served as Director of IIT Bombay from January 2009 to April 2019. Professor Khakhar did his B.Tech. from IIT Delhi in 1981 and his Ph.D. from the University of Massachusetts, Amherst in 1986.

He joined the Department of Chemical Engineering at IIT Bombay in January 1987, and has been with the Institute since then.

Shri Om Prakash Bhasin Foundation is happy in conferring on him the award in the field of ENGINEERING INCLUDING ENERGY & AERO SPACE for the year 2019.

SHRI OM PRAKASH BHASIN AWARD (2022)

ENGINEERING including ENERGY & AERO SPACE



Dr. Bijaya Ketan Panigrahi

Born on 27th July 1968, in a small rural village Sarua, Khorda district of Odisha, Professor Panigrahi has obtained B. Sc (Electrical Engineering) degree from CET, OUAT, Bhubaneswar, Odisha (1990), M.E. (Power System Engineering) degree from UCE, Burla, Sambalpur University, Odisha (1995) and Ph.D. (Electrical Engineering) from Sambalpur University, Odisha (2004).

He has been working as a professor in the Department of Electrical Engineering since 2005 and was the founder head of Centre for Automotive Research and Tribology (CART) at the Indian Institute of Technology (IIT), New Delhi, India. He is the Indu Shrivastava & Serla Singh Chair Professor in Artificial Intelligence at IIT Delhi. Professor Panigrahi is an associate faculty at Bharti School of Telecommunication Technology and Management, Amar Nath and Sashi Khosla School of Information Technology and Yardi School of Artificial Intelligence, IIT Delhi. Prior to joining IIT Delhi, he has served as a faculty in Electrical Engineering Department, University College of Engineering, Burla, Sambalpur, Odisha, India from 1992 to 2005.

His research focus is to design and develop artificial intelligence-based tools for the detection and classification of power quality events, fault diagnostics of induction motor drives, diagnostics of electric vehicle motors. He has investigated intelligent techniques for the design of maximum power point tracking controller for the solar photovoltaic system. Professor Panigrahi is presently looking into energy management in smart grid, EV charging infrastructures, impact of fast charging on the grid, EV battery technology and Battery Management Systems, Cyber security in power infrastructure. Dr Panigrahi has published more than 750 research articles in various international journals and conference proceedings Prof. Panigrahi has a total citation of 22680 (Google Scholar) with a h-index of 77 and i-10 index of 349 at present. He has filed more than 15 Indian patents till now out of which 5 have been granted. He is mentoring many start-ups in the area of energy management, Electric Vehicle Infrastructure and EV battery. Professor Panigrahi is also closely working with many other start-ups , MSMEs and various Government agencies.

Prof. Panigrahi is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE), Indian National Academy of Engineering (INAE), National Academy of Sciences, India (NASI) and Asia–the Pacific Artificial Intelligence Association (AAIA).

Prof. Panigrahi has also been felicitated for many awards such as Emerging Leader in Research Award (2022), IETE Bimal Bose Award (2021), Prof K L Chopra Applied Research Award (2021), Outstanding Leadership Award (2021), IEEE PES-IAS Delhi Chapter Outstanding Engineer Award (2021), Pandit Madan Mohan Malaviya Prize (2021), TATA Rao Prize (2021), FITT Award for Best Industry Relevant PhD work (2019), Career 360 Faculty Research Awards (2018), Bharat Vikash Award (2018), IETE-J C Bose Memorial Award (2013), The Institution of Engineers (India) Institution Gold Medal (2011), Institution of Engineers (India) Institution Award (2005), Young Scientist Award (2004), Gold Medal and 1st Prize for Paper (1993).

Shri Om Prakash Bhasin Foundation is happy in conferring on him the award in the field of ENGINEERING INCLUDING ENERGY & AERO SPACE for the year 2022.

AWARD Winners 2018, 2019 & 2022

HEALTH & MEDICAL SCIENCES

S. No.	Name of Recipient	Year of Award	Date of Function	Presented by
1	Dr. V.P. Sharma	1985	17.03.86	Shri Rajiv Gandhi, Hon'ble Prime Minister of India
2	Dr. P.K. Rajgopalan			
3	Dr. M.S. Valiathan	1986	23.05.87	Giani Zail Singh, Hon'ble President of India
4	Prof. P.N. Tandon	1987	30.05.88	Dr. Shankar Dayal Sharma, Hon'ble Vice President of India
5	Dr. M.G. Deo	1988	30.03.89	Sh. P. V. Narasimha Rao, Hon'ble Minister of External Affairs
6	Dr. A.N. Malaviya	1989	24.10.90	Prof. Madhu Dandavate, Hon'ble Minster of finance
7	Prof. B.N. Dhawan	1990	13.03.92	Shri Arjun Singh, Hon'ble Minister of H.R.D.
8	**Error! Not a valid link.**			
9	Prof. Madan Mohan	1991	20.05.92	Sh. P. V. Narashimha Rao, Hon'ble Prime Minster of India
10	Prof. U.C. Chaturvedi			
11	**Error! Not a valid link.**	1992	15.05.93	Sh. Shivraj V. Patil, Hon'ble Speaker, Lok Sabha
12	**Error! Not a valid link.**			
13	Dr. (Mrs.) Asha Mathur	1994	11.04.95	Sh. P. N. Haksar, Chancellor, J. N. U.
14	Prof. V. Ramalingaswami	1995	18.02.97	Dr. Karan Singh, Member of Parliament
15	Dr. V. I. Mathan			
16	Dr. Kalyan Banerjee	1996	14.10.98	Dr. Murli Manohar Joshi, Minister for HRD and Science & Technology
17	Dr. V. P. Kamboj			
18	Dr. N. K. Ganguly	1997		
19	Prof. (Mrs.) Sneh Bhargava			
20	Dr. (Ms.) M. Gourie Devi	1998	21 .06.99	Shri Atal Behari Vajpayee, Hon'ble Prime Minister of India
21	Dr. (Ms.) Geeta Talukder	1999	11.05.01	Shri. K C Pant, Dy Chairman, Planning Commission
22	Prof. Narinder K. Mehra	2000		
23	Prof. Vijayalakshmi Ravindranath	2001	13.05.02	Shri. L. K. Advani, Minister of Home Affairs
24	Prof. A. S. Paintal	2002-03	20.08.04	Shri. Bhairon Singh, Shekhawat, Hon'ble Vice President of India
25	Dr. Pradeep Seth	2004-05	26.10.06	Dr. A. P. J. Abdul Kalam, Honble President of India
26	Dr. Shiv Kumar Sarin	2006-07	15.11.11	Sh. Hamid Ansari, Honble President of India
27	Prof. Jitendra Nath Pande	2008-09		
28	Dr. Vishwa Mohan Katoch	2011	01.11.14	Prof. M.G.K. Menon, FRS Former Minister for Science & Technology
29	Dr. Girish Sahni	2013		
30	Prof. Balram Bhargava	2014	01.11.16	Bharat Ratna Prof. C.N.R. Rao FRS
31	Prof. NikhilTandon	2015		
32	Dr. Mrs. Soumaya Swaminathan	2016	01.11.18	Dr. Anil Kakodkar, Padma Vibhushan President, The National Academy of Sciences India, Allahabad
33	Prof. Prmod Kumar Garg	2017		
34	Prof.Harsh Pal Singh Sachdev	2017		
35	Prof. Rohit Srivastava	2018	15.02.2024	Dr. Murli Manohar Joshi Former Minister for HRD and Science & Technology
36	Prof. Tapas Kumar Kundu	2019		
37	Dr. Giriraj Ratan Chandak	2022		

SHRI OM PRAKASH BHASIN AWARD (2018)

HEALTH & MEDICAL SCIENCES



Prof. Rohit Srivastava

Prof. Rohit Srivastava has demonstrated his versatility by conducting fundamental and translational research in the field of health care. His tremendous efforts and commitment to meet the challenging needs of underdeveloped rural healthcare sector of India has led to the development of numerous affordable point of care technologies. Four such technologies (SYNC, Uchek, SmartSense and CareMother) have been commercialized, and more than 10 products are in the process of regulatory approval.

Prof Srivastava's lab has filed more than 200 patent and design applications to the US and Indian Patent Office with more than 50 granted patents and several published and has graduated 50 PhD and 100 Masters students. He has been awarded the Dr Shanti Swarup Bhatnagar Prize in Medical Sciences 2021 and is an elected Fellow of NASI, INAE, NAMS, RSC and RSB, London.

He has been instrumental in encouraging 10 of his students to set up Companies either through a TBI or otherwise and is himself a co-founder on 5 startup's with more than 3 women entrepreneurs co founders. He is also on the panel of several companies where he mentors them through startup grants and one such startup product, CareMother has achieved self-sustainability to focus further on last mile and women health issues. Care Mother, a hardware and app for diagnosing high risk pregnancy in rural population has already touched more than 0.5 million women and has managed to save more significant number of high risk pregnancy related complications.

Shri Om Prakash Bhasin Foundation is happy in conferring on him the award in the field of HEALTH & MEDICAL SCIENCES for the year 2018.

SHRI OM PRAKASH BHASIN AWARD (2019)

HEALTH & MEDICAL SCIENCES



Prof. Tapas Kumar Kundu

Prof. Tapas K. Kundu has made significant contributions in the area of Epigenetics and Gene Regulation in humans with special emphasis on disease and therapeutics, through the Chemical Biology, approach. His group has discovered human transcriptional coactivator PC4, as a bonafide chromatin protein involved in genome integrity, autophagy, and cancer. They have also shown histone chaperone NPM1 and tumour suppressor p53 regulate epigenetic landscape, thereby global gene expression both in physiological and pathophysiological conditions. Remarkably, he has discovered several small molecule modulators of epigenetic enzymes, which could be targeted to cancer and neurodegenerative disorders.

During his directorship at CSIR-CDRI, several drug molecules reached Phase-I clinical trials and could be licensed to industries for further development. He also led and completed Phase-III clinical trials for anti-Covid 19 therapy which is awaiting DCGI approval. He was instrumental in establishing the 'Asian Forum for Chromatin and Chromosome Biology' and 'Chemical Biology Society, India'. Besides fundamental and translational research, Prof. Kundu is also involved in teaching and organizing science outreach programs.

His popular lectures on "Epigenetics, Life Beyond your Genes: Implications in Disease and Therapeutics" have benefitted high school and college students greatly. He is a fellow of four major national academies of India and recipient of several awards, noteworthy among which are: the Shanti Swarup Bhatnagar Prize from CSIR (2005), the National Academy of Science, India-Reliance Industries Platinum Jubilee Award (2008), the Sir JC Bose National Fellowship from DST (2010), the GD Birla award for scientific research (2011), The Ranbaxy Research Award 2011 in the field of Medical Sciences – Basic Research.

Shri Om Prakash Bhasin Foundation is happy in conferring on him the award in the field of HEALTH & MEDICAL SCIENCES for the year 2019.

SHRI OM PRAKASH BHASIN AWARD (2022)

HEALTH & MEDICAL SCIENCES



Dr. Giriraj Ratan Chandak

Dr. Giriraj Ratan Chandak has made outstanding contributions in understanding the genetic basis and gene-nutrient interaction in complex human genetic diseases. His studies established genetic basis of chronic pancreatitis (CP) and mutational and genetic heterogeneity through identification of two novel genes (included in Online Mendelian Inheritance in Man) and different mutations, leading to population-specific genetic screening model for CP in Indians. Dr Chandak has been the first to show that genetic susceptibility of type 2 diabetes (T2D) in Indians is different than Europeans, especially for traits like central obesity and insulin resistance. He has made seminal contributions in understanding the molecular basis of early-life exposures and future health outcomes like T2D and cardiometabolic disorders (Developmental Origins of Health and Diseases). He has established the causal role of vitamin B12 (B12)in the programming of obesity and insulin resistance in children that predict future risk of the cardio-metabolic syndrome. His work has shown B12-mediated epigenetic regulation of diabetes-associated genes as an explanation for missing heritability in T2D. Further, he has demonstrated improvement in neonatal body size with pre- and peri-conceptional nutritional intervention and identified differential methylation of specific genes as the cause. This opens the possibility of developing a suitable intervention at an appropriate stage.

In addition, he has also established a risk of neural tube defects in Indians by demonstrating the role of maternal B12 rather than folate, established in Caucasians that has preventive implications in periconceptional B12 supplementation. He has provided similar evidence for thiamine deficiency which shows life-threatening clinical presentation rather than classical Beri-Beri in infants and timely supplementation leading to complete recovery. Thus, Dr Chandak's research has changed the perspective about genetic susceptibility to complex diseases and the influence of nutrition in modulating the risk in Indians and has immense public health implications.

Shri Om Prakash Bhasin Foundation is happy in conferring on him the award in the field of HEALTH AND MEDICAL SCIENCES for the year 2022.

In Loving Memory of 'Grover Saab'
Late Mr. R. C. Grover



Mr. Ramesh Chander Grover, lovingly known as Grover Saab to all of us, has left an indelible mark on the hearts of those who had the privilege of working alongside him. Grover Saab worked with the OPBF since its inception in 1984, with impeccable diligence and dedication. He possessed a very pleasing disposition. His humble, caring and helpful nature impressed all the people he came in contact with.

Grover Saab shared a special bond with Mrs. Vinod Bhasin, akin to that of an elder sister. Shivy Bhasin & Hemant Bhasin were not just trustees to him - but brothers, forming a familial atmosphere that permeated the very essence of the foundation. This unique camaraderie added a personal touch to the professional landscape, fostering an environment of trust, collaboration, and shared aspirations.

Grover Saab took immense pride in the honor of the Shri Om Prakash Bhasin foundation, considering himself a pivotal point in its remarkable journey. He served as a secretary of the trust under leadership of Prof. M.G.K. Menon, Dr. V.P. Sharma and Dr. Manju Sharma and had grasped knowledge about scientific development in India; accounting, coordinating meetings and arranging the award functions. Every facet of the foundation's functioning bore the imprint of his passion and foresight, ensuring that it ran with impeccable precision.

For Mr. Grover, every award's function was not just a ceremony. He would pay immaculate attention to its buildup. The year-round continuous coordination with the Hon. Chairman & Trustees, Experts' committees, SBI leadership, nomination process, award winners and finally the logistics of the award ceremony. Grover Sahib enjoyed what he did for the Trust and at times gave Trust work precedence over his family. We remember a humble man with great dedication and love for fellow beings.We shall miss him and remember him fondly. His spirit inspires us, and his contributions will be cherished forever.

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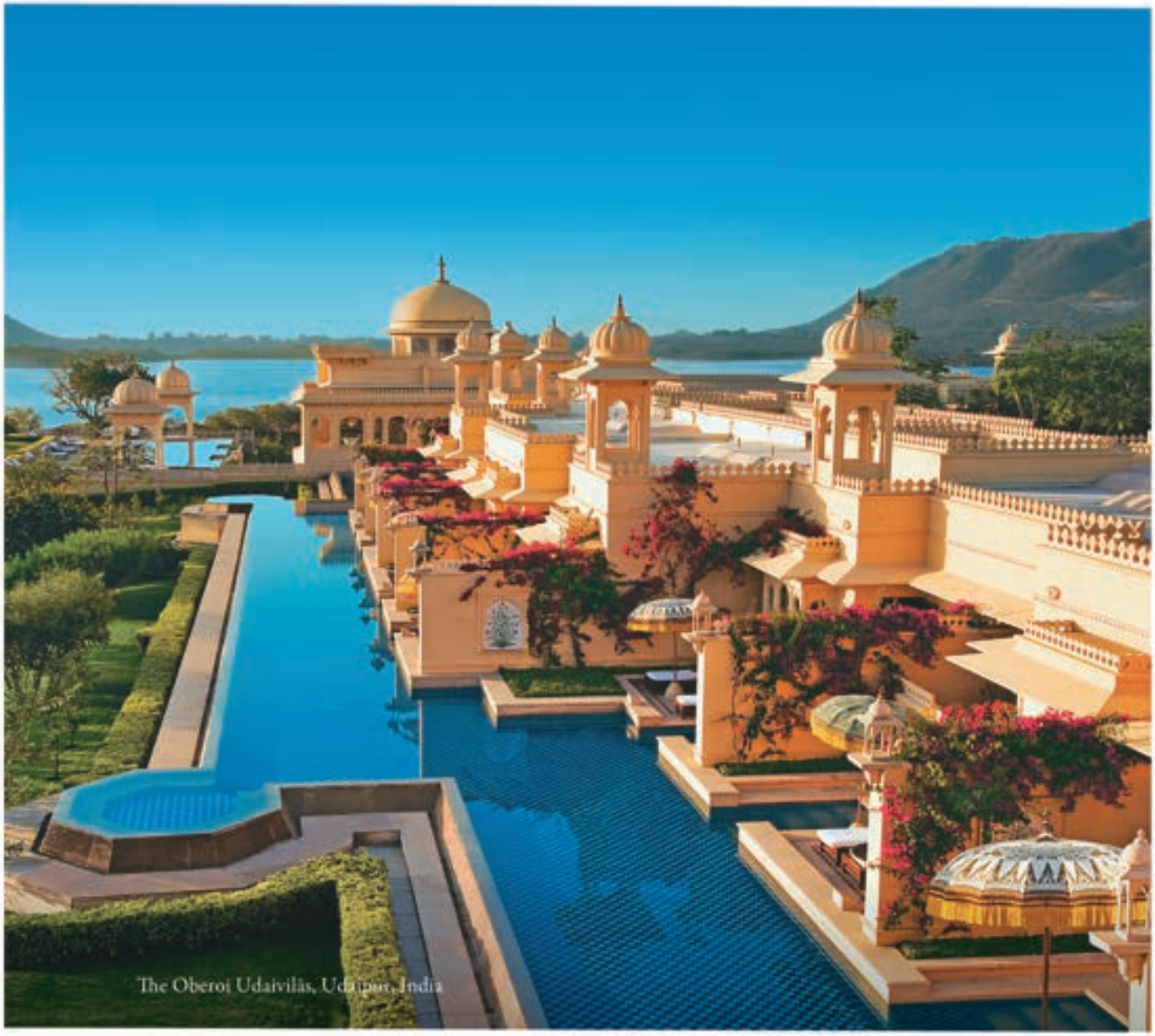
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