



## Indian Institute of Science Alumni Association

### **Distinguished Alumnus Award - Overview**

#### **What is Distinguished Alumnus Award?**

The Distinguished Alumnus Award is recognition of alumni of the Indian Institute of Science that are well known and respected in their chosen field and have made significant contributions in academia, industry and other fields around the world. It is awarded by the IISc Alumni Association.

#### **When was the award instituted and who have been the recipients?**

The award was instituted in 1977 and 2 awards were typically given every year. During the platinum and centenary years in 1985 and 2008 respectively, 16 awards were given on each of these special occasions. Starting in 2009, the number of annual awards has been increased to 5. The complete list of the 102 awardees is included in the annexure.

#### **Who decides the awards?**

A selection committee, chaired by IIScAA President, with members from both IISc and IIScAA along with Industry representative and Eminent Personality will review the nominations and shortlist the candidates. The members of the committee are selected such that the diverse disciplines and roles in which IISc alumni are active are well represented. The names of the awardees for the year are finalized in consultation with and approval of the Director of the Institute.

#### **Is there an award ceremony?**

Yes, the awards are given during the Annual General Meeting of IISc Alumni Association which will be held in the last week of September.

#### **How are candidates identified and nominated?**

Each year, communication is sent to members of IISc AA seeking nominations. The process has been streamlined for the last two years with self-nomination to ensure greater participation of alumni.

#### **Who is eligible to be nominated?**

Any person who had registered for a program and was awarded a degree by IISc is eligible to be nominated. The nomination can be sent by any person (i.e., person sending the nomination need not be an IISc alumnus)

### **What criteria should I use to identify and propose a person for the award?**

Since there is no quantitative way to define ‘outstanding accomplishment and contribution’, there is an element of subjectivity in both nomination and final selection. However, it is possible to use guidelines that will ensure that only candidates that have a reasonable chance of being chosen for the award are nominated:

The person must be well known and respected in his/her chosen field. This usually implies that the person has a high level achievement in his/her field of work, with demonstrable recognition and impact. The recognition could be evidenced by significant awards in recognition of his/her performance and contributions from reputed Institutions/Organizations. Measures of impact are different for different professional fields. Academia uses measures such as the number of publications and citations, and indices such as the h-index. Industry uses revenue, profitability, market capitalization, etc., to measure business leaders. An individual can also have made a significant innovation, leading to the setting up of a business, or direct impact on society or the government. \*All such claims need to be supported by documentary evidence.\*

The profile and track record of past award winners provides useful information that you can use to benchmark. Two recent citations are attached for reference.

### **Is there a template I can use for nomination?**

The nomination form is enclosed and **instructions therein must be strictly adhered to**. The nomination can include supporting documents such as a list of publications and patents, documentary evidence of industrial innovation or contributions to business, media reports, etc. However, the contents of the nomination form will be the primary source of information for the committee. Please do not enclose copies of publications, annual reports, or any other such large documents.

### **Where should I send nominations?**

Nominations using printed matter should be addressed to :

**The General Secretary  
IISc Alumni Association  
Indian Institute of Science  
Bangalore 560012  
India  
Tel : 23600180 / 22932597**

Nominations by email should be sent to [alumni@admin.iisc.ernet.in](mailto:alumni@admin.iisc.ernet.in)

### **In addition to sending nominations, are there other ways that I can participate in the process?**

Yes, you can help by sharing this communication with other alumni that may not have received it directly. Some of them may not have become members of IISc Alumni Association. You can invite them to become members or send their contact information to us and we will contact them. This will significantly widen and strengthen the alumni network.

**Annexure - DISTINGUISHED ALUMNUS AWARDEES of IIScAA**

1.	Prof G. N. Ramachandran (Former Faculty Member, IISc)	1977
2.	Dr. Sukh Dev (Former INSA SN BOSE RES. PROF., IIT, Delhi & Director, MALTI-CHEM Research Centre, Vadodara)	1978
3.	Sri C R Subramanian (Former Chairman & Managing Director, BEL)	1979
4.	Late Prof. Harish Chandra - (USA)	1980
5.	Sri T. R. Satish Chandran ( Formerly Principal Secretary to the Prime Minister/ Governor of GOA)	1981
6.	Prof. T.R. Anantharaman (Former Director, Institute of Technology, Banaras Hindu University)	1982
7.	Prof C N R Rao (Former Director, IISc, / President, Jawaharlal Nehru Centre for Advanced Scientific Research)	1983
8.	Prof Satish Dhawan (Former Director, IISc / Chairman, Space Commission)	1984
9.	Dr V. Jagannathan (Former Head, Biotechnology, Tata Energy Res. Institute, Delhi)	1985
10.	Prof. S.C. Bhattacharya, IIT, Bombay	1985
11.	Prof. N.S. Govinda Rao, Bangalore	1985
12.	Prof. Karamchatti, Stanford University, USA	1985

13.	Prof. R.S. Krishnan, Bangalore	1985
14.	Dr. P.S. Maruvada, Canada	1985
15.	Shri. S.G. Ramachandra Chartered Engineer, Bangalore	1985
16.	Dr. A. Ramachandran, Bangalore	1985
17.	Dr. D.R. Sanadi, USA	1985
18.	Prof. K.P. Sinha, Bangalore	1985
19.	Prof. K. Sreenivasan, Bangalore	1985
20.	Prof. S. Srikantiah, Bangalore	1985
21.	Prof. S. Ramaseshan Raman Research Institute, Bangalore	1985
22.	Prof. C.V. Sundaram, NIAS, Bangalore	1985
23.	Dr. J.R.D. Tata NIMR, London	1985
24.	Prof. A.R. Vasudeva Murthy, Bangalore	1985
25.	Dr. S. R. Valluri (Former Director, NAL)	1986
26.	Prof. B.V. Sreekantan (Former Director, TIFR, Bombay)	1987
27.	Prof. R. Narasimha (Former Director, NAL & Present Director,NIAS)	1988

<b>28.</b>	Prof. P. Somasundaran (Former Chairman, Henru Krumb School of Mines, Columbia University)	1989
<b>29.</b>	Dr. P. Ramarao (Former Secretary, Dept. of Sc. & Tech., Govt. of India)	1990
<b>30.</b>	Prof. R. Chidambaram (Former Chairman, Atomic Energy Commission)	1991
<b>31.</b>	Prof. V. J. Modi (Professor, University of British Columbia)	1992
<b>32.</b>	Dr. N. Seshagiri (Former Director General, National Informatics Centre, New Delhi)	1993
<b>33.</b>	Dr. M. Ramamoorthy (Former Director General of CPRI and Present Director of ERDA, Vadodara)	1994
<b>34.</b>	Prof. R. Kumar (Dept. of Chem Engg., IISc)	1995
<b>35.</b>	Prof. M. A. Viswamitra (Dept. of Physics, IISc)	1996
<b>36.</b>	Dr. R. R. Tummala (Director, Packaging Res Centre, Georgia)	1997
<b>37.</b>	Dr. V. K. Aatre (Scientific Adviser to Defence Minister & Secretary, Dept. of Defence Research & Development, Ministry of Defence, South Block, New Delhi)	1998
<b>38.</b>	Prof. G. Padmanaban (Former Director, I.I.Sc.)	1999
<b>39.</b>	Dr. Ramadas P. Shenoy (Former Director of LRDE & 'Distinguished Scientist' of DRDO)	2000

40.	Prof. P. Ramachandra Rao (Vice-Chancellor, Banaras Hindu University, Varanasi)	2001
41.	Prof. S. S. Iyengar (Chairman and Professor, Computer Science Dept., Louisiana State University, USA)	2001
42.	Prof. Satya N. Atluri (Director, Center for Aerospace Research & Education, University of California, IRVINE, CA 92612, USA.)	2002
43.	Prof. A. Sridharan (Formerly Deputy Director & Advisor , IISc)	2002
44.	Prof. K. R. Sreenivasan (International Center for Theoretical Physics)	2003
45.	Prof. Brij M. Moudgil (Director of the Engineering Research Center for Particle Science and Technology, University of Florida, USA)	2003
46.	Prof. H. S. Mukunda (Honorary Advisor, ABETS, Combustion, Gasification & Propulsion Laboratory of Aerospace Engineering, Indian Institute of Science)	2004
47.	Prof. B.L. Deekshatulu (Visiting Professor, Department of Computer & Information Science, University of Hyderabad.)	2004
48.	Prof. M. Vijayan (Hon. Professor, Molecular Biophysics Unit, Indian Institute of Science)	2005
49.	Dr. Ashok K. Sinha (Senior Vice President & General Manager, Applied Material Inc., USA )	2005
50.	Prof. S. Ranganathan (Hon. Professor, Materials Engg., Dept., IISc.and Visiting Professor at NIAS)	2006

51.	Dr. Prathima Agrawal (Samuel Ginn Distinguished Professor and Director, Wireless Engg. Research & Education Centre, Auburn Site Director, NSF WICAT ECE Department, Auburn University, USA)	2006
52.	Dr. Baldev Raj (Hon. Member, International Committee on NDT, Distinguished Scientist & Director, IGCAR, Kalpakkam, Tamil Nadu)	2007
53.	Dr. Bishnu S. Atal (Affiliate Professor, University of Washington, USA)	2007
54.	Prof. E.S. Raja Gopal Professor (Rtd.) Department of Physics IISc., Bangalore	2008
55.	Prof. S.K. Brahmachari Director General CSIR, New Delhi	2008
56.	Dr. Mahtab S. Bamji INSA Honorary Scientist, Dangoria Charitable Trust, Hyderabad	2008
57.	Prof. S. S. Krishnamurthy Professor(Rtd.) Dept. of Inorganic & Physical Chemistry IISc, Bangalore	2008
58.	Dr. B. Swaminatha Reddy President and CEO SP Systems, Inc. Greenbelt, MD	2008
59.	Prof. N. Appaji Rao Professor (Rtd.), Dept of Biochemistry IISc, Bangalore	2008
60.	Prof. G. Baskaran Professor, Institute of Mathematical Sciences, Chennai	2008
61.	Prof. K. Venkatesan Professor(Rtd.), Dept. of Organic Chemistry, IISc Bangalore	2008
62.	Prof. V. Rajaraman Professor (Rtd.) Dept of CSA/SERC, IISc, Bangalore	2008

63.	Prof. M.A.L. Thathachar Professor (Rtd.), Dept. of Electrical. Engg IISc, Bangalore	2008
64.	Dr. Nikil Jayant Georgia Research Alliance Eminent Scholar, School of ECE, Georgia Institute of Technology, and Executive Director of the Georgia Centers for Advanced Telecommunications Technology.	2008
65.	Prof. I. Chopra Alfred Gressow Prof. of Rotorcraft Engineering, Director, Alfred Gessow Rotorcraft Center, Dept. of Aerospace Engg., Univ. of Maryland, College Park, MD	2008
66.	Dr. Kota Harinarayana Raja Ramanna Professor, NAL, Bangalore	2008
67.	Dr. Sanak Mishra Chief Executive Officer India Greenfield Projects New Delhi.	2008
68.	Prof. Y.V.R.K. Prasad Technical Consultant, Processing maps.com, USA and Visiting Professor, City University of Hong Kong, Hong Kong	2008
69.	Mr. Lakshmi Narayanan Director/Vice Chairman, Cognizant Technology Solutions Corporation, USA and also Chairman of NASSCOM.	2008
70.	Prof. M. V. Srinivasan, Professor of Visual Neuroscience, Queensland Brain Institute and School of Information Technology and Electrical Engineering, University of Queensland, Australia.	2009
71.	Prof. N. Viswanadham Executive Director of the Centre for Global Logistics and Manufacturing Strategies (GLAMS) at the Indian School of Business, Hyderabad.	2009
72.	Prof. K. P. Gopinathan Honourary Professor and INSA Senior Scientist Microbiology and Cell Biology Department, IISc.	2009
73.	Dr. T. S. Prahlad Distinguished Scientist National Aerospace Laboratories, Bangalore	2009
74.	Shri. M. D. Mallya Chairman & Managing Director, Bank of Baroda	2009
75.	Prof. J. Gopalakrishnan Honorary Professor & INSA Senior Scientist Solid State and Structural Chemistry Unit Indian Institute of Science, Bangalore	2010
76.	Dr. R. L. Kashyap Dept of Electrical and Computer Engineering Purdue University, USA	2010



77.	Mr. P. S. Raghavan Ambassador of India to Ireland	2010
78.	Dr. Umeshwar Dayal H P Labs, USA	2010
79.	Dr. Vijay Kumar Saraswat Scientific Advisor to Rakshamantri, DRDO, New Delhi	2010
80.	Prof. V. Krishnan Honorary Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore	2011
81.	Dr. Ravi Bhushan Grover Director, Homi Bhabha National Institute, Mumbai and Principal Advisor, Department of Atomic Energy, Mumbai	2011
82.	Lt. Gen.(Dr.) V. J. Sundaram (Retd.) Advisor (Micro and Nano Systems), National Design and Research forum and Former Director, DRDL and RCL, Hyderabad	2011
83.	Dr. Subhash Mahajan Distinguished Professor and Special Advisor to the Chancellor, University of California, Davis	2012
84.	Prof. Ramesh Ramamoorthy Plato Malozemoff Professor of Materials Science and Physics, University of California, Berkeley	2012
85.	Dr. H. R. Nagendra Vice Chancellor, Swami Vivekananda Yoga Anusandhana Samsthana (S-VYASA), Yoga University	2012
86.	Prof. B. Yegnanarayana Institute Professor and Microsoft Chair, IIT, Gachibowli, Hyderabad	2013
87.	Mr. K. Naresh Babu Managing Director, HAL, Bangalore Complex	2013
88.	Mr. Srinivasan Rajam Co-Founder, Chairman & CEO, Ittiam Systems, Bangalore	2013
89.	Prof. Chanchal Uberoi Retired Professor, Dept. of Mathematics, IISc	2013
90.	Prof. S. Seetharaman Visiting Professor, TU-Bergakademie, Freiberg, Germany	2013
91.	Dr. K. S. Rajasekhara University of Texas at Dallas, Richardson, TX, USA Distinguished Professor of Engineering and Endowed Chair in Erik Jonsson, School of Engineering & Computer Science Director of Advanced Energy Systems	2013
92.	Dr. Rudrapatna Kallikote Shyamasundar Senior Professor and JC Bose National Fellow Tata Institute of Fundamental Research, Mumbai	2014

<b>93.</b>	Prof. M. R. S. Rao Honorary Professor and SERB Distinguished Fellow Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore	2014
<b>94.</b>	Prof. M. R. Madhav Professor Emeritus, JNT University, Hyderabad	2014
<b>95.</b>	Mr. A. Dinesh Kumar Managing Director, CT Control Technology(India) Pvt. Ltd., Bangalore	2014
<b>96.</b>	Prof. K. R. Padiyar Honorary Professor/Emeritus (Retd.), Electrical Engineering, IISc	2014
<b>97.</b>	Dr. Raj Jain Professor, Computer Science and Engineering, Washington University in St.Louis, Missouri	2014
<b>98.</b>	Shri. A. S. Kiran Kumar Chairman, Space Commission, GOI Secretary to the GOI, Dept. of Space Chairman, ISRO	2015
<b>99.</b>	Prof. Sunil Kumar Dean and George Pratt Shultz Professor of Operations Management, Booth School of Business, University of Chicago	2015
<b>100.</b>	Shri. K. S. R. Charan Reddy Inspector General of Police Special Investigation Team, Karnataka Lokayukta, Bengaluru	2015
<b>101.</b>	Prof. Vedu Mitter Principal Consultant / Chief Executive, Changeman, Bengaluru (Excellence Counsellors and Six Sigma facilitators)	2015
<b>102.</b>	Dr. Subhash Chandra Singhal Battelle Fellow Emeritus, Pacific Northwest National Laboratory Richland, Washington, USA	2015

## Sample Citations



### INDIAN INSTITUTE OF SCIENCE and THE ALUMNI ASSOCIATION

#### DISTINGUISHED ALUMNUS AWARD 2015

The Indian Institute of Science along with the Indian Institute of Science Alumni Association take great pleasure in conferring this Distinguished Alumnus Award for the year 2015 on Shri. A. S. Kiran Kumar, Chairman, Space Commission, Secretary to Government of India, Department of Space and Chairman, ISRO.

Born on 22<sup>nd</sup> October, 1952, Shri. Kiran Kumar obtained his Physics Honours Degree from National College, Bangalore in 1971, M.Sc. Electronics from Bangalore University in 1973 and M.Tech. Degree in Physical Engineering with distinction from Indian Institute of Science Bangalore in 1975.

At ISRO, he has contributed to the design and development of more than 50 Electro-Optical Imaging Sensors flown on Spaceborne platforms starting from Bhaskara TV payload in 1979 to the payloads onboard the Mars Orbiter Mission in 2013. He has been instrumental in evolving the earth observation strategy of ISRO encompassing Land, Ocean and Atmosphere. He has been responsible for i) development of 3-tier imaging system for IRS-1C to Resourcesat-2 spacecrafts which enabled monitoring vegetation, snow and glacier, water resources, coastal zone and disaster, ii) ocean colour instruments using push broom technology catering to Potential Fishery Zone forecast, iii) high resolution along track stereo imaging system of Cartosat-1 leading to realisation of Digital Elevation Model (DEM) of the country, iv) sub-meter resolution optical imaging sensors for Technology Experiment Satellite and Cartosat-2 series for cartographic applications, v) GEO based meteorological payloads (2-Channel and 3-Channel Very High Resolution Radiometer for INSAT-2 series, Kalpana-1 and INSAT-3A) and vi) 6-Channel Imager and 19-Channel Sounder instruments for INSAT-3D catering to weather monitoring and forecasting. As Associate Director and subsequently Director of Space applications Centre, Ahmedabad, he has steered the design and development of microwave, communication, navigation payloads and their application activities. He has played a crucial role in Chandrayaan-1 mission right from the conceptualization stage and has made exemplary contributions to the success of Mars Orbiter Mission. Shri. Kiran Kumar has been the Chair of the Committee on Earth Observation Satellites (CEOS) in 2012. He has made valuable contributions in Coordination Group of Meteorological Satellites (CGMS), Expert Team on Satellite Systems – World Meteorological Organisation (ETSAT of WMO) and Indo-US Joint Working Group on Civil Space Cooperation.

Shri. Kiran Kumar is a Fellow of Indian National Academy of Engineering, Indian Society of Remote Sensing, Institution of Electronics & Telecommunications Engineers, Indian Meteorological Society and Gujarat Science Academy and an elected member of International Academy of Astronautics. In recognition of his contributions, he was conferred with the Padma Shri award by the Government of India in 2014. He is recipient of Laurels for Team achievement Award of International Academy of Astronautics for Cartosat in 2008 and Chandrayan-1 in 2013. ISRO's Individual Service Award in 2006 and Performance Excellence Award in 2008 Bhaskara Award of Indian Society of Remote Sensing in 2007, Astronautical Society of India Award for Space Science and Applications in 2001 and VASVIK Award for Electronics Sciences and Technology in 1988.

Shri. Kiran Kumar has distinguished himself by his contribution to the Indian Space Programme. In presenting this award to him, the Alumni Association feels greatly honoured that one of its members has risen to the level of such distinction and achievement.

Prof. Anurag Kumar  
Director  
Indian Institute of Science

Wg. Cdr. H. R. Parthasarathy (Retd)  
President  
Indian Institute of Science Alumni Association

30<sup>th</sup> August 2015  
Indian Institute of Science, Bangalore

## Sample Citations



# INDIAN INSTITUTE OF SCIENCE and THE ALUMNI ASSOCIATION

## DISTINGUISHED ALUMNUS AWARD 2014

The Indian Institute of Science along with the Indian Institute of Science Alumni Association take great pleasure in conferring this Distinguished Alumnus Award for the year 2014 on Professor Manchanahalli Rangaswamy Satyanarayana Rao, Honorary Professor and SERB Distinguished Fellow, Jawaharlal Nehru Centre for Advanced Scientific Research(JNCASR).

Born on 21<sup>st</sup> January 1948 at Mysore, Prof. Rao obtained his B.Sc. and M.Sc. degrees from Bangalore University, in 1966 and 1968, respectively, and Ph.D. in Biochemistry from the Indian Institute of Science in 1973 working on the regulation of heme synthesis in liver under the supervision of Professor G. Padmanaban. After his post-doctoral work at the Baylor College of Medicine, Houston, USA during 1974-78, he returned to IISc as an Assistant Professor in the Department of Biochemistry and was promoted to Associate Professor and Professor Positions in 1987 and 1991 respectively. He served as the Chairman of the Department of Biochemistry during 1998–2003 and of the Centre for Genetic Engineering during 1990-93. From 2003 to 2013, he was the President of JNCASR. He was a visiting professor to Baylor College of Medicine, Harvard Medical School, Ludwig Institute for Cancer Research, San Diego.

At IISc, Prof. Rao worked on role of Vitamin A in cellular differentiation, built an active school of chromatin biology using mammalian spermatogenesis as a model system, and made original contributions on the role of histone and their variants in modulating chromatin structure to facilitate various important biological phenomena. He also initiated various genomics programs at the Institute including a NMITLI Program on cancer genomics. He has authored over 150 publications and has mentored 35 PhD students and several postdoctoral fellows. He was Chairman of the Research Council of CCMB, Hyderabad and IICB, Kolkata. He has been a Member of the Indo-French, Indo-JSPS, and Indo-Brazil Science Councils. He was also Chairman of the DBT Task Force on Human Genetics and Genomic Analysis. He was the first Chairman of the Board of Governors of Indian Institute of Science Education & Research, Trivandrum. He has been a member of Science & Engineering Research Board, GoI.

Prof. Rao was conferred the SS Bhatnagar Prize (1988), Ranbaxy Science Foundation Award (1999), Jawaharlal Nehru Birth Centenary Fellowship of INSA (2000), JC Bose Medal (2001), OP Bhasin Award (2002), FICCI Award (2004), JC Bose National Fellowship (2006), Sir M Visveswaraya Award (2004), Dr BR Ambedkar Centenary Award (2005), and TWAS Medal Lecture (2008). He was the President of the Society of the Biological Chemists (India) for two terms; and is a Fellow of the Indian Academy of Sciences, National Academy of Sciences-India, Indian National Science Academy, National Academy of Medical Sciences and the Academy of Sciences for the Developing World (TWAS) and Padma Shri of Govt. of India (2010).

Prof. Rao has distinguished himself by his outstanding contributions to the research and teaching in Biochemistry. In presenting this Award to him, the Alumni Association feels greatly honored that one of its members has risen to the level of such distinction and achievement.

Prof. Anurag Kumar  
Director  
Indian Institute of Science

Wg. Cdr. H. R. Parthasarathy(Retd)  
President  
Indian Institute of Science Alumni Association

31<sup>st</sup> August 2014  
Indian Institute of Science, Bangalore