



## **Short Biographies of Members**

**International Science Advisory Group (ISAG)**  
**International Business Advisory Group (IBAG)**

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## **International Science Advisory Group (ISAG)**

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### **Professor Sir Michael Brady**

*BP Professor of Information Engineering (emeritus), University of Oxford  
Founder Guidance and Control Systems (GCS), Ltd  
Founder, Miranda Solutions, Ltd (now wholly owned by Siemens Molecular Imaging)*

Professor Mike Brady was BP Professor of Information Engineering in the Department of Engineering Science and a Fellow of Keble College in the University of Oxford, a position he retired from in 2010. Mike received the B.Sc. and M.Sc. degrees from the University of Manchester and a PhD from Australia's National University, all in mathematics. He joined Oxford University as the foundation Professor of Information Engineering in August 1985 from MIT, where he had been Senior Research Scientist in the Artificial Intelligence Laboratory. During his time in Oxford, he and his colleagues established the Robotics Research Laboratory and, more recently, as his research interests shifted to Medical Image Analysis and minimally-invasive surgery, the Medical Vision Laboratory Mike continues to undertake research at Department of Radiation Oncology and Biology at the University of Oxford.

Mike is a Fellow of the Royal Society, a Fellow of the Royal Academy of Engineers, a Fellow of the Institution of Electrical Engineers, a Fellow of the Institute of Physics, and a Fellow of the American Association of Artificial Intelligence. Mike was awarded the Faraday Medal for the year 2000, and a Third Millennium medal of the IEEE. He has been awarded honorary doctorates by the Universities of Essex, Manchester, Liverpool, Southampton, and the Universite Paul Sabatier, Toulouse. He is an honorary professor at the University of Wales, Aberystwyth.

### **Professor Rodney A. Brooks**

*Founder, Chairman and Chief Technology Officer (CTO) Heartland Robotics, Inc  
Founder, and former Chairman and CTO of iRobot Corp  
Panasonic Professor of Robotics (emeritus) at MIT*

Dr Brooks received degrees in pure mathematics from the Flinders University of South Australia and a Ph.D. in Computer Science from Stanford University in 1981. He held research positions at Carnegie Mellon University and MIT, and a faculty position at Stanford before joining the faculty of MIT in 1984. He was Director, MIT Computer Science Artificial Intelligence Laboratory from 1997-2007. He has published many papers in computer vision, artificial intelligence, robotics, and artificial life.

Dr. Brooks is a Member of the National Academy of Engineering (NAE), a Founding Fellow of the Association for the Advancement of Artificial Intelligence (AAAI), a Fellow of the American Academy of Arts & Sciences (AAAS), a Fellow of the American Association for the Advancement of Science (the other AAAS), a Fellow of the Association for Computing Machinery (ACM), a Corresponding Member of the Australian Academy of Science (AAS) and a Foreign Fellow of the Australian Academy of Technological Sciences and Engineering (ATSE).

### **Dr Stuart Feldman**

*Vice President Engineering, East Coast Labs, Google*

Dr Feldman is responsible for engineering activities at Google's offices in the eastern half of the Americas. Before joining Google, he worked at IBM for eleven years. Most recently, he was Vice President for Computer Science in IBM Research, where he drove the long-term

and exploratory worldwide science strategy in computer science and related fields, led programs for open collaborative research with universities, and influenced national and global computer science policy.

Prior to that, Dr Feldman served as Vice President for Internet Technology and was responsible for IBM strategies, standards, and policies relating to the future of the Internet, and managed a department that created experimental Internet-based applications. Earlier, he was the founding Director of IBM's Institute for Advanced Commerce, which was dedicated to creating intellectual leadership in e-commerce.

Before joining IBM in mid-1995, Dr Feldman was a computer science researcher at Bell Labs and a research manager at Bellcore. In addition he was the creator of Make as well as the architect for a large new line of software products at Bellcore.

Dr Feldman did his academic work in astrophysics and mathematics and earned his AB at Princeton and his PhD at MIT. He is President of ACM (Association for Computing Machinery) and received the 2003 ACM Software System Award. He is also a Fellow of the IEEE, a Fellow of the ACM, and serves on a number of government advisory committees.

### **Professor Jeffrey D. Ullman**

*Stanford W. Ascherman Professor of Computer Science (Emeritus) Stanford University  
Founder Gradient Corporation*

Prof. Ullman worked with Bell Laboratories, Murray Hill – NJ, in 1966, before moving to Princeton University where he was an Associate Professor between 1969 and 1974 and a Professor between 1974 and 1979. He joined Stanford University in 1979 as a Professor, has been the S.W. Ascherman Prof. of Engineering since 1994 and was the Chair of Department of Computer Science from 1990 to 1994.

He completed a B.S. in Engineering Mathematics from Columbia University in 1963 and went on to complete a Ph.D. in electrical Engineering, at Princeton University in 1966. He received an honorary doctorate from Free University of Brussels in 1975, followed by the Einstein Fellowship of Israeli Academy of Sciences in 1984.

He holds memberships in the National Academy of Engineering, ACM, EATCS, SIGACT, SIGMOD, TBP and SigmaXi. His interests include database theory, database integration, data mining, and education using the information infrastructure.

### **Prof. Dr. Dr. h. c. Dieter Rombach**

*Chair of Software Engineering, University of Kaiserslautern, and Executive Director of the Fraunhofer Institute for Experimental Software Engineering*

Prof. Dr. Dieter Rombach studied mathematics and computer science at the universities of Karlsruhe and Kaiserslautern. Since 1992, he has held the chair for Software Engineering at the University of Kaiserslautern, and since 1996, he has been Executive Director of the Fraunhofer Institute for Experimental Software Engineering in Kaiserslautern (FhG IESE). From 1984-1991, he was Professor of Computer Science at the University of Maryland, and from 1986-1991 he was Project Manager at NASA/Goddard Space Flight Center.

In 1990, Prof. Rombach received the "Presidential Young Investigator Award" from the National Science Foundation (USA) "in recognition of his successful work in the area of Experimental Software Engineering". For his exceptional services rendered to the state of Rhineland-Palatinate and his exemplary commitment to the good of society, he received the

Order of Merit of the state of Rhineland-Palatinate in late 2000. In 2009 he received the Federal Cross of Merit on Ribbon of the order of Merit of the Federal Republic of Germany for contributions to the economic development of the Palatian area. Effective 1 January 2003, Prof. Rombach was appointed Fellow of the American Institute of Electrical and Electronics Engineers (IEEE) and a fellow of the ACM in recognition of his achievements in the area of Experimental Software Engineering. In 2009 he received an honorary PhD from the University of Oulu in Finland.

### **Professor Jean Vuillemin**

*Professor and Chair of the Department of Computing at École Normale Supérieure (ENS)*

Jean Vuillemin holds degrees from Ecole Polytechnique, Université de Paris and a PhD from Stanford University.

Jean Vuillemin is a professor in the Computer Science department (DI) at École normale supérieure de Paris. Dr Vuillemin was previously Full Professor at University of Paris-Sud, Ecole Polytechnique, Pôle Universitaire Léonard de Vinci, and now ENS. He has spent many years as a consultant in industry.

From January 2005 to December 2006 Prof Vuillemin was the Scientific Director, l'Institut National de Recherche en Informatique et en Automatique (INRIA) France's national institute for research in computer science and control.

In 2008, Jean Vuillemin received the EADS Prize for Computer Science from the French Academy of Sciences.

## **International Business Advisory Group (IBAG)**

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### **Dr. Robert R. Bishop**

*President of the ICES Foundation (International Centre for Earth Simulation)  
[www.icesfoundation.org](http://www.icesfoundation.org)*

Bob Bishop is President of the Geneva-based ICES Foundation, Chairman and Founder of BBWORLD Consulting Services (a strategic consulting organization), and Chairman of the Advisory Board for the Blue Brain Project (a research initiative within Ecole Polytechnique Federale de Lausanne).

Dr Bishop was Chairman and Chief Executive Officer for Silicon Graphics Inc (SGI) from 1999 to 2005, and president of the SGI World Trade Corporation from 1986 to 1999.. He was also Vice President International for Apollo Computer, Inc., from 1982 to 1986 and held multiple senior positions with Digital Equipment Corporation from 1968 to 1982.

During his 40 year career in scientific and technical computing, Bishop lived with his family in five countries and established over 100 international subsidiaries for DEC, Apollo and SGI.

Dr Bishop is an elected member of the Swiss Academy of Engineering Sciences, and a fellow of the Australian Davos Connection.

He earned a B.Sc. (First Class Honours) in mathematical physics from the University of Adelaide, Australia, an M.Sc. from the Courant Institute of Mathematical Sciences at New York University, and his D.Sc. Honoris Causa from the University of Queensland.

In 2006, Dr. Bishop was awarded NASA's Distinguished Public Service Medal for his role in helping NASA's space shuttle fleet successfully 'return-to-flight' after the 2003 Columbia disaster.

### **Mr N. R. Narayana Murthy**

*Non-executive Chairman, Chief Mentor and founder of Infosys*

Mr. Narayana Murthy was born on August 20, 1946 in Karnataka, India. He obtained his Bachelor of Electrical Engineering (B.E.) from University of Mysore in 1967 and his Master of Technology (M.Tech.) from Indian Institute of Technology (IIT), Kanpur in 1969.

He founded Infosys in 1981 along with six software professionals. He was CEO from 1981 to 2002. Under his leadership, Infosys was listed on NASDAQ in 1999. He served as the Executive Chairman of the Board and Chief Mentor from 2002 to 2006.

Mr. Murthy articulated, designed and implemented the Global Delivery Model which has become the foundation for the huge success in IT services outsourcing from India. He has led key corporate governance initiatives in India. He is an IT advisor to several Asian countries. Mr. Murthy serves as an independent director on the boards of several global companies including Unilever, NV, Unilever, plc and HSBC Holdings plc. He is also a member of the advisory boards and councils of several educational institutions including Wharton, Cornell, INSEAD, Stanford, Tokyo University, Singapore Management University, International Institute of Technology - Bangalore and ESSEC, Paris.

Mr. Murthy has received many honours and awards. The Economist ranked him 8th in the list of the fifteen most-admired global leaders in 2005. In 2006, the TIME magazine voted him as one of the Asian heroes who have brought about revolutionary changes in Asia in the last 60 years. He was ranked 28th among the world's most-respected business leaders by the Financial Times in 2005. He was awarded "Padma Vibhushan", the second highest civilian award by the Government of India in 2008. The Government of France conferred on him the Officer of the Legion of Honor in 2008.

### **Mr Duane Zitzner**

*Retired Executive Vice President, Hewlett Packard Company*

Mr Zitzner was the Executive Vice President of the Personal Systems Group at Hewlett-Packard Company (HP) from 2002 until his retirement in December 2004. Prior to his appointment as Executive Vice President, Mr. Zitzner spent several years in executive positions at HP, including three years as President of Computing Systems and three years as Vice President and General Manager of the Personal Systems Group.

Before joining HP, Mr Zitzner held various management and technical jobs in software and architecture at IBM (International Business Machines). Previous to that he was a programmer at Univac.

Zitzner was born in Viroqua, Wisconsin. He holds a bachelor's degree in mathematics from the University of Wisconsin in Madison, and he did graduate studies in computer science at the University of Minnesota in Minneapolis. Zitzner serves on the boards of Synnex, Alien Technology Corporation, Entone Technologies, Firetide and serves as an advisor to SQLstream.

### **Ms Heather Killen**

*Managing Partner and founder, Hemisphere Capital*

Heather Killen is Managing Partner (London), of Hemisphere Capital providing corporate advisory services and capital to information technology and digital media companies.

Ms Killen served as Senior Vice President, International Operations, of Yahoo! Inc., a SOFTBANK portfolio company, from January 1998 to June 2001, and previously as the company's Managing Director, European Operations, from September 1996 to December 1997.

In the course of five years Heather spearheaded the establishment of owned and operated companies for Yahoo! in more than 20 countries, managing what is widely regarded as the most successful international expansion of any Internet business during that time.

Prior to joining Yahoo!, Heather was Director, European Online Services, for Ziff-Davis, a technology publishing company also in the SOFTBANK portfolio, from 1994 to 1996, and Director of Business Development from 1992 to 1994.

**Dr Ya-Qin Zhang**

*Corporate Vice President of Microsoft and Chairman of Microsoft Asia-Pacific R&D Group*

Dr. Ya-Qin Zhang is responsible for driving Microsoft's overall research and development efforts in China. ARD has become Microsoft's largest R&D centre outside of U.S., with more than 3000 engineers and scientists engaged in basic research, technology innovation and incubation, product development, and strategic partnership. In addition to this role, Zhang serves on Microsoft Great China Executive Management Committee providing leadership and governance across all of Microsoft's organizations in the Greater China Region.

He was formerly Corporate Vice President of Microsoft, responsible for Microsoft's Mobile and Embedded Division in Redmond, USA and Managing director of Microsoft Research Asia, Microsoft's basic research arm in Asia-Pacific region. Before Microsoft Zhang was Director of Multimedia Technology Laboratory at Sarnoff Corporation in Princeton, NJ (RCA Laboratories).

Zhang is a Fellow of IEEE. Zhang received his B.S. and M.S. in Electrical Engineering from the University of Science and Technology of China (USTC) in 1983 and 1985. He received his Ph.D in Electrical Engineering from George Washington University, Washington D.C. in 1989 and has executive business development training from Harvard University.

**Dr Herve Gallaire (2012 guest)**

*Corporate Senior Vice President and Xerox CTO, retired  
Member of the French Academy of Technology*