

Selected Young Scientists
Tianjin, China
26-28 September 2008

Final list of participants



Afshari

Reza

Head of Department
Mashhad University of Medical Sciences, Islamic Republic of Iran

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Nominated by: TWAS, the academy of sciences for
the developing world

Field of
Specialization: Clinical Toxicology

Personal: MD in Natural Toxicity, Iran; MPH in
Toxo-Epidemiology, Iran; MSc, UK; PhD in
Cardiovascular Toxicity, UK. Head, Research and
Education Development; Assistant Professor and
Consultant Physician, Medical Toxicology.



Ahmad

Islam

System Analyst
Royal Scientific Society, Jordan

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Nominated by: Royal Scientific Society of Jordan

Field of Specialization: Proposal writing, System Analysis and Business Requirements, Software Development , Designing and Developing Complete Dynamic Solutions and Web Portals

A not-for-profit institution with financial and administrative independence. It conducts scientific and technological research and development work related to the development process in Jordan with an emphasis on industrial research and services.

Personal: 2000, BSc in Computer Science, Princess Sumaya University for Technology, Amman, Jordan; general and technical courses, workshops and seminars. Currently, Acting Head, Research and Information Division, and current position, Royal Scientific Society including: researching software needs, developing plans and assigning teams for analysis, design, development, implementation and testing; manages production line; knowledge transfer activities. Member, Jordan Computer Society.



Arafat

Abeer

Head of Research and Development Bureau
Royal Scientific Society, Jordan

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Nominated by: Royal Scientific Society of Jordan

Field of Specialization: Materials science and metallurgy ,
Heat Treatment, Mechanical failure
assessment , Materials Testing, Non-
destructive Testing

A not-for-profit institution with financial and administrative independence. It conducts scientific and technological research and development work related to the development process in Jordan with an emphasis on industrial research and services.

Personal: 1993, BSc in Mechanical Engineering Materials, American University, Cairo in 1993. With Royal Scientific Society, Jordan: Metallography and Heat Treatment Unit, Mechanical Design and Technology Center; Head, R&D Bureau; Liaison Officer, Commission on Science and Technology for Sustainable Development in the South, EU Information Point. Member, Young Scientists, established in Malaysia during 2007 International Youth Workshop on Science, Technology and Innovation. Conducts research on empowerment of women and energy saving.



Aycan
Zeynep

Professor
Koç University, Turkey

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Nominated by: Turkish Academy of Sciences

Field of Industrial and organizational
Specialization: psychology with a specific focus on
 the impact of culture on leadership,
 human resource management
 practices, and work-family balance.

A private, non-profit university founded in 1993 and located in Istanbul. It is supported by the financial resources of the Vehbi Koç Foundation. It seeks the pursuit of excellence in both teaching and research, a progressive, expansive, and student-oriented view and the search for truth through research, criticism, and creativity. It co-operates with international institutions and has lectures by internationally renowned academics and business leaders.

Personal: PhD, Queen's University, Canada. Formerly, Consultant or trainer to Bechtel-Enka, Phillip-Morris, Alcatel, GlaxoSmithKlein. Currently: Co-Editor, International Journal of Cross-Cultural Management; Professor of Industrial and Organizational Psychology, Koç University. President: International Society for Study of Work and Organizational Values; Istanbul Branch, Turkish Psychological Association. Member, Turkish Academy of Sciences. Author of books and articles. Recipient of awards.



Aydoğan

Nihal

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Hacettepe University, Turkey

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Nominated by: Turkish Academy of Sciences

Field of Specialization: Surface Science and Engineering,
Surfactants, Nano-materials,
Molecular Thermodynamic Modelling,
Separation Technologies

A government supported university founded in 1967. The leading university of Turkey in terms of scientific publications and high quality research as well as advanced education system having over 25000 students and more than 3400 academic staff.

Personal: 1992, BSc in Chemical Engineering, Ankara University, Turkey; 1996, MSc, Middle East Technical University, Turkey; 2001, PhD in Chemical Engineering, University of Wisconsin-Madison, US. Currently: Vice-Chairman, Chemical Engineering Department, Hacettepe University. Recipient of awards including: Distinguished Young Scientist Award, Turkish National Academy of Sciences (2007); Young Women in Science Fellowship, L'Oreal-Turkey (2007) and Encouragement award of Hacettepe University (2007). Directing several research projects on Molecular Design and Molecular Nanotechnology



Baig

Tanvir Noor

Assistant Professor, Department of Physics
University of Dhaka, Bangladesh

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Nominated by: Bangladesh Academy of Sciences

Field of Biomedical Physics
Specialization:

[The oldest and most prominent university in Bangladesh].

Personal: 1994, BSc and 1996, MSc in Physics, University of Dhaka, Bangladesh; 2003, MSc and 2007, PhD in Physics, Case Western Reserve University (CWRU). 1996, NST Research Fellowship, Ministry of Science and Technology, Government of Bangladesh; 1996-97, NST Research Fellow, Department of Physics, DU; 1997-99, Research Student, Department of Biomedical Engineering, University of Tokyo; 1999-2001 Lecturer, Department of Physics, University of Dhaka; 2001-03, Teaching Assistant, Department of Physics, CWRU; 2003-07 Graduate Research Assistant, Department of Physics, CWRU; since 2007, current position. Member: Bangladesh Physical Society; Promote. Recipient of awards, including: Student Stipend Awards for 13th and 14th International Society for Magnetic Resonance in Medicine (2005, 2006).



Balaba

Dorothy

Executive Director

THETA - African Solution for African Challenges, Uganda

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Nominated by: Uganda National Academy of
Sciences

Field of Public health (Traditional medicine
Specialization: research)

A Ugandan national non-governmental organization which aims to improve the health of Ugandans by promoting collaboration between traditional and biomedical health systems. Its programmes include training and capacity building, and research and documentation on traditional medicines.

Personal: Bachelor's in Medicine and Surgery and Master's in Public Health, Makerere University, Uganda. Over 10 years' experience in community development, and health focused programmes including reproductive health, HIV and AIDS prevention, care and support. Formerly: Member, Steering Committee, Biosciences Eastern and Central Africa; Vice-Chair, Regional AIDS Training Network. Co-Author, papers in peer reviewed journals. Participated in national and international conferences and meetings. Recipient of awards.



Bandyopadhyay

Ranjini

Associate Professor
Raman Research Institute, India

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Nominated by: India National Science Academy

Field of Specialization: Experimental Soft Condensed Matter
Physics

An institute founded in 1948 and funded by the Department of Science and Technology in India. Its main areas of research are: astronomy and astrophysics; soft condensed matter; theoretical physics; and light and matter physics.

Personal: PhD in Physics, Indian Institute of Science. Currently, Associate Professor, Soft Condensed Matter Department, Raman Research Institute. Recipient of awards. Expertise: experimental condensed matter physics, structure, dynamics and rheology of soft materials, nonlinear dynamics, computational work. Interests: reading, travelling, films, documentaries.



Brück

Tilman

Head, Department of International Economics
German Institute for Economic Research (DIW Berlin), Germany

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Nominated by:	German Academy of Sciences Leopoldina
Field of Specialization:	Development Economics

One of the leading research institutes in Germany. It is an independent, non-profit academic institution, which is involved, in basic research and policy advice. Its work is determined by three interlinked, international themes important to the German and European economy of accelerating globalization, deepening regional integration and the global differences in income and wealth.

Personal: Studies in Economics, Glasgow University; PhD in Economics, Oxford University. Formerly, Consultant with: European Commission; DFID; GTZ; ILO; KfW; OECD; UNDP; USAID. Currently: Co-Founder, Households in Conflict; Coordinator, Economics of Terrorism; Assistant Professor of Development Economics, Humboldt University. Co-Director, Households in Conflict. Research Affiliate: Poverty Research Unit, Sussex; Brooks World Poverty Institute, University of Manchester. Fellow: Institute for the Study of Labour; German Young Academy of Sciences.



Cavallotti

Carlo

Associate Professor
Politecnico di Milano, Italy

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Nominated by: Accademia Nazionale dei Lincei

Field of Specialization: Chemical Kinetics, advanced material synthesis, biomolecular chemistry

Personal: 1999, phd in Chemical Engineering from Politecnico di Milano; 1999 Assistant Professor at Politecnico di Milano and Associate Professor of Chemical Engineering Principles in 2006. In 2001 post doctoral associate fellow at MIT. He has won several awards and is author of more than 50 publications on international peer reviewed journals. His research activity is centered on the study of the chemical kinetics of homogenous and heterogeneous reactions, on the gas phase kinetics of soot formation and more recently on the molecular modeling of the interaction between biomolecules and chromatographic supports



Diop

Cheikh Abdoul Kadir

Professor

University of Cheikh Anta Diop, Senegal

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Nominated by: Academy of Science and
Technology, Senegal

Field of
specialization: Chemistry

One of the largest universities in West Africa, ranked 20th among all African universities. Its major departments are Literature and Human Sciences, Science and Technology, Medicine, Economic Sciences and Legal Sciences.

Personal: 1993, pre-doctoral degree in Physics and Chemistry applied to Energy; 1995, doctoral degree thesis in Inorganic Chemistry; 1998, PhD (Hons) in Physics and Chemistry. Since 1998: Consultant and Director, School of Sciences and Techniques, University of Sahel; since 2000, Lecturer, Department of Chemistry, University Cheikh Anta Diop; since 2001, Coordinator, West African Green Chemistry Institute. Fellow, Royal Society of Chemistry.



Esmailzadeh

Saeid

Associate Professor

Royal Swedish Academy of Sciences, Sweden

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Nominated by: Royal Swedish Academy of Sciences

Field of specialization: Materials chemistry with a focus on materials for energy and medical applications

A scientific academy dedicated to promoting the sciences.

Personal: 2000, PhD, Stockholm University, Sweden. Co-Founder: Diamorph; Nanologica; Organoclick; Prozeo; X-brane Bioscience; Boxit Robotics; Serendipity Innovations. Author of over 40 scientific publications and six patents. Recipient of awards.



Hanes

Justin

Director of Therapeutics, Institute for NanoBioTechnology and Professor
Johns Hopkins University, USA

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Nominated by: US National Academy of Science

Field of specialization: Chemical and Biomedical Engineering, with sub-specialties in Environmental Health Science, Oncology, Biomaterials, and Aerosol Science.

A university with a mission to educate its students and cultivate their capacity for life-long learning, to foster independent and original research, and to bring the benefits of discovery to the world. Founded in 1876, it was the first research university in the US.

Personal: BSc in Chemical Engineering, University of California, US; PhD, Massachusetts Institute of Technology, US. Currently with John Hopkins University: Professor of Chemical and Biomolecular Engineering, Biomedical Engineering, Environmental Health Sciences and Oncology; Member, Executive Committee. Expertise: intersection of nanotechnology and medicine.



Hilgenkamp

Hans

Professor of Applied Physics and Nanotechnology
University of Twente, Netherlands

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Nominated by: Royal Netherlands Academy of Arts
and Sciences

Field of specialization: Physics and applications of
superconductors and related
materials

A Dutch university that offers research and degree programmes in technology and in the social and behavioural sciences. It collaborates with TU Delft and Tue Eindhoven under the umbrella of the Netherlands 3TU Federation and is also a partner in the European Network of Innovative Universities. Degree programmes range from business studies and applied physics to biomedical technology and psychology.

Personal: Formerly: with IBM Zurich Research Lab, Switzerland; University of Augsburg, Germany. Visiting Professor, National University of Singapore; 2007, guest scientist, CSIRO, Sydney, Australia. Programme leader, European research programmes. Member of the Board: Applied Superconductivity Conference, US; Young Academy Branch, Royal Dutch Academy of Arts and Sciences. Author of articles in Nature and Science. Recipient of awards, including: Central Education Prize (2007). Research interests: materials with unconventional electronic properties, superconductivity, nanotechnology, new technologies for energy harvesting such as artificial photosynthesis.



Hutchinson

David

Senior Lecturer
University of Otago, New Zealand

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Nominated by: Academy Council of the Royal
Society of New Zealand

Field of
Specialization Condensed matter and atomic
physics, quantum physics, Ultra-
cold atomic gases. Strongly
correlated systems. Connections
between number theory and
physics.



Johnsrude

Ingrid

Associate Professor and Canada Research Chair, Department of Psychology
Queens University, Canada

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Nominated by: Academy of Arts, Humanities and
Sciences, Canada

Field of specialization: Neuroscience, fMRI Imaging.
Audition, Speech and language
processing

Personal:

1997, PhD in Clinical Psychology, McGill University.
Studies brain bases of auditory and speech.
Formerly: two year Postdoctoral Fellowship,
Wellcome Department of Imaging Neuroscience,
London; with MRC Cognition and Brain Sciences
Unit, Cambridge, UK. 2004, Canada Research
Chair in Cognitive Neuroscience, Queen's
University. Member: Queen's University Board of
Trustees; many scientific societies concerned with
neuroscience, hearing and communication.



Karim

Md. Manjurul

Associate Professor
University of Dhaka, Bangladesh

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Nominated by: Bangladesh Academy of Sciences

Field of specialization: Microbiology and molecular biology.

The oldest and most prominent university in Bangladesh.



Karoonuthaisiri

Nitsara

Researcher

National Center for Genetic Engineering and Biotechnology, Thailand

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Nominated by: Thailand Academy of Science and Technology

Field of specialisation: Development of high-throughput technology, DNA microarray and gene expression analysis, Antibody

An organization first set up under the Thai Ministry for Science, Technology and Energy in 1983. After the establishment of the National Science and Technology Development Agency in 1991, it became one of its centres, operating outside the normal framework of civil service and state enterprises.

Personal:

1999, BS (Honors with Distinction, Departmental Valedictorian) Chemical Engineering, Columbia University, New York, USA.

2001, MS and 2004, PhD Chemical Engineering, Stanford University, California, USA.

Honors and Awards

- Excellent Thesis Award, National Research Council of Thailand (2006)
- Outstanding Teaching Award, Stanford University (2002-2003)
- Tau Beta Pi National Engineering Honor



Krishnan

Yamuna

Assistant Professor
National Centre for Biological Sciences, India

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Nominated by: India National Academy of Science

Field of specialisation: Structure and dynamics of nucleic acids.



Lupercio

Ernesto

Professor of Mathematics

**Centro de Investigación y de Estudios Avanzados del IPN, Mathematics,
Mexico**

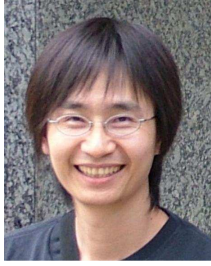
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Nominated by: TWAS, the academy of sciences for
the developing world

Field of specialisation: Mathematics, Mathematical-Physics,
Algebraic Topology

A Mexican non-governmental scientific research institute founded in 1961. It is affiliated to Mexico's National Polytechnic Institute and receives an annual subsidy from the government to fund its operations. The institute is divided into 28 departments and eight research centres with three in Mexico City and the others dispersed across the country.

Personal: 1992, BSc, National Polytechnic Institute, Mexico; 1997, PhD Stanford University, US. Formerly with: ESFM-IPN Mexico; University of Michigan; University of Wisconsin; MSRI; Berkeley College, University of California; St John's College, Cambridge University. Professor of Mathematics, Centre for Research and Advanced Studies, National Polytechnic Institute. Expertise and interests: algebraic topology and geometry in physics, mathematization of quantum field theory and string theory, literature, film, neurophysiology.



Liang Mao-Chang

Associate Research Fellow
**Research Center for Environmental Changes, Academia Sinica, Taiwan,
China**

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Nominated by: Academia Sinica, Taiwan, China

Field of specialisation: Planetary sciences



Madhavan

Guruprasad

Predocctoral Fellow
State University of New York, USA

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Nominated by: TWAS, the academy of sciences for
the developing world

Field of
specialization: Medical device engineering,
bioengineering

The largest comprehensive university system in the US educating more than 427,000 students in 7,669 degree and certificate programmes on 64 campuses.

Personal: 2001, BE (Hons) in Instrumentation and Control Engineering, University of Madras; 2002, MSc in Biomedical Engineering, 2007, MBA in Leadership and Healthcare Management and currently, PhD candidate in Biomedical Engineering, State University of New York. Formerly: Experience in medical device industry as research scientist, Afx and Guidant Corporation. Fellow: Royal Society of Medicine, UK; New York Academy of Medicine, US; Royal Institute of Public Health, UK; Royal Society of Arts, UK; Linnean Society of London, UK; World Academy of Art and Science, US. Lead Editor, Career Development in Bioengineering and Biotechnology (2008). Interests: conceptualization and commercialization of medical devices, healthcare management and leadership, improving health in developing world, public policy.



McLaren

Sandra

Research Fellow
University of Melbourne, Australia

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Nominated by: Australian Academy of Sciences

Field of specialization: Earth Sciences

Personal: PhD, University of Adelaide, Australia.
Research work on understanding of contemporary climate change and environmental sustainability.
Recipient of awards including, Dorothy Hill Award, Australian Academy of Science (2008).



Modi

Albert

Associate Professor
University of KwaZulu-Natal, South Africa

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Nominated by: Academy of Sciences of South Africa.

Field of specialization: Seed Science; Agronomy

A university, formed by four campuses in KwaZulu-Natal, which offers tertiary education and conducts research in science, engineering, management and social science.

Personal: PhD, Ohio State University, US. Associate Professor, Crop Science, University of KwaZulu-Natal. President, South African Society of Crop Production. Fulbright Scholar. Expertise and interests: crop physiology, agronomy, indigenous knowledge in agriculture.



Mohamed

Hiba

Assistant Professor of Molecular Biology
Institute of Endemic Diseases, Sudan

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Nominated by: The African Academy of Sciences

Field of specialization: Molecular Host Genetics with emphasis on : Host –Parasite interaction; Genetics susceptibility to infectious diseases in particular to visceral leishmaniasis (VL), post-kala-azar dermal leishmaniasis (PKDL) and Malaria.

An academic institute with the objectives of teaching and training postgraduates, conducting research and offering service to communities by conducting field trips to disease-endemic areas and advancing methods of diagnosis.

Personal: BSc (Hons) in Zoology then 1995-97, MSc in Zoology, University of Khartoum; 1998-2002, PhD in Molecular Biology, University of Khartoum and University of Cambridge, UK. 1999, TDR training fellowship, University of Cambridge; 2004-07, Wellcome Trust Research Development Award; Genetics and functional analysis of SLC11A1 polymorphisms in susceptibility to visceral leishmaniasis in Sudan in collaboration with Professor Blackwell, University of Cambridge, UK; 2007, University of Khartoum research on genetics and immunological factors determining severity of *P. falciparum* infection. Recipient of Royal Society Pfizer Award (2007). Research interests: host-parasite interaction, genetic susceptibility to infectious diseases, in particular to visceral leishmaniasis, post kala-azar dermal leishmaniasis and malaria.



Muyonga

John

Associate Professor
Makerere University, Uganda

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Nominated by: Uganda National Academy of
Sciences

Field of Food Technology
specialization:

One of the oldest universities in Africa, founded in 1922. It has about 35,000 students and aims to play a leading role in the socio-economic transformation of Uganda and neighbouring countries.

Personal: PhD in Food Science and Technology. Formerly: over 10 years as researcher and lecturer; focus on extraction of value added products from food processing by-products; currently, Head, Food Technology and Business Incubation Programme and current position, Makerere University. Former Member, Institute of Food Technologists, US. Lead consultant and lead researcher, numerous projects. Published in peer reviewed international journals. Member: South African Association of Food Science and Technology; Uganda Institute of Food Scientists and Technologists. Recipient of award, TWAS Young Scientist of the Year (2007).



Ngo Van Thanh

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Nominated by: TWAS, the academy of sciences for
the developing world

Field of
specialization: Thin films, condensed matter physcs



Nguyen Thanh Thi Kim

Royal Society University Research Fellow and Lecturer
University of Liverpool, United Kingdom

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Nominated by: The Royal Society, United Kingdom

Field of specialization: Nanoscale science and technology



Ormeci Beckers

Banu

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Nominated by: Academy of Arts, Humanities and
Sciences, Canada

Field of specialisation: Water and wastewater disinfection,
fate and persistence of pathogens
and chemicals, advanced ultraviolet
processes, biosolids treatment and
disposal.

Personal: 1993, BSc in Environmental Engineering, Dokuz Eylül University, Turkey; 1996, MSc and 2000, PhD in Civil and Environmental Engineering, Duke University. 2000-03, Research Associate, Duke University; 2003-05, Assistant Research Professor, Department of Civil and Environmental Engineering, Duke University; since 2005, current positions. Recipient of awards, including: Teaching Excellence Award, Carleton University; Carty Research Fellowship, Carleton University (2006); Canada Research Chair in Wastewater and Public Health Engineering (2007); Ontario Early Researcher Award (2007); Outstanding Young Scientist, Royal Society of Canada (2008). Research Interests: water and wastewater disinfection, fate and persistence of pathogens and chemicals, advanced ultraviolet processes, biosolids treatment and disposal.



Pequito Teixeira

Maria da Conceição

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Nominated by: Academia das Ciencias de Lisboa

Field of specialization: Political Science, Comparative Politics & International Politics.



Priller

Josef

Professor
Charité Universitätsmedizin Berlin, Germany

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Nominated by: German Academy of Sciences
Leopoldina

Field of specialisation: Neurology and Psychiatry

One of the oldest hospitals in Germany and among the largest of university clinics in Europe. With a history spanning almost three centuries, it has produced eight Nobel prize winners, a staff of more than 12,800 full-time positions and handles 127,400 inpatient and 500,000 outpatient cases a year.

Personal: 1988-96, studies in Medicine, Universities of Bochum and TU Munich, Germany, Lausanne, Switzerland and Georgetown and Harvard, US; studies in Political Sciences and International Relations, London School of Economics and Political Sciences and University of Munich; 1998, Medical Doctorate, Max Planck Institute of Psychiatry; with Charité-Universitätsmedizin Berlin: 2002, Lecturer; 2004, Board Certification in Neurology; 2004, Professor of Psychiatry and Head, Laboratory of Molecular Psychiatry; 2008, Head, Neuropsychiatry Unit. Member: Junge Akademie, Berlin-Brandenburg Academy of Sciences; Leopoldina. Author of 50 scientific papers in neurosciences. Recipient of awards: Novartis Prize; Robert Feulgen Prize; EMBO and JSPS fellowships.



Qin Song

Assistant Director and Professor
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Nominated by: Chinese Academy of Sciences

Field of specialisation: Genetic engineering

Personal: 1988, BSc in Genetics and Genetic Engineering, Fudan University, China; 1994, PhD in Marine Biology, Institute of Oceanology, Chinese Academy of Sciences; 1994, Assistant Research Professor; 1995-97, Associate Research Professor; since 1997, current position. 1995-96, Guest Research Scientist, Osaka National Research Institute, Japan; 1999-2000, Postdoc Fellow, University of Goettingen, Germany. President, Asia-Pacific Society for Applied Phycology. Past President, Asia-Pacific Marine Biotechnology Society. Council Member, Asia-Pacific Phycological Association. Board Member and Conference Director, International Marine Biotechnology Association; Board Member, International Society of Applied Phycology.



Ramanitrahambola

David

Researcher

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Nominated by : The African Academy of Sciences

Field of specialisation: Pharmacology (assessment of plant bioactivity)

A private research institute with an objective of evaluating scientifically the biodiversity of Madagascar flora and Malagasy folklore medicine. It offers the local population some 40 standardized phytomedicines. The institute consists of a research unit with eight teams of researchers and a unit manufacturing phytomedicines.

Personal: 1997, PhD in Pharmacology, University of Antananarivo. Formerly: 1995, Researcher, IMRA; 1998, post-doctoral grant, Agence Universitaire de la Francophonie; with University of Montpellier II, France; since 2004, grantee, International Foundation for Science; currently, Head, Pharmacology Unit, Laboratoire de Chimie Marine et Aquatique, IMRA. Lecturer in Pharmacology, Faculty of Medicine, University of Antananarivo. Member, TWAS, as young scientist affiliate. Research interests: malaria, inflammatory like asthma, cardio-vascular diseases and



Mohd Fadlee A. Rasid

Head, Computer and Communication Systems Engineering Department
Universiti Putra Malaysia, Malaysia

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Nominated by: Academy of Sciences, Malaysia

Field of specialisation	Wireless Communications (Wireless Sensor Network)
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Personal: BSc in Electrical Engineering, Purdue University; PhD in Electronic and Electrical Engineering, Loughborough University, UK. Currently, also Acting Director, National Centre of Excellence on Sensor Technology, Universiti Putra Malaysia, directs research in Wireless Sensor Network which has had worldwide publicity for healthcare applications involving mobile telemedicine. Research Consultant, British Council UKIERI project on wireless medical sensors for a more patient-driven health service and improving efficiency healthcare delivery. Member, STIC Asia Project on ICT-ADI: Toward a Human Friendly Assistive Environment for Aging, Disability and Independence, French government. Recipient of award, Anugerah Saintis Muda Negeri Selangor (2006).



So

Regina

Assistant Professor
Ateneo de Manila University, Philippines

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Nominated by: National Academy of Science and
Technology, the Philippines.

Field of specialisation: Synthetic organic chemistry,
medicinal chemistry

A private university run by the Society of Jesus in the Philippines. It began in 1859 when the City of Manila handed control of the Escuela Municipal de Manila in Intramuros, Manila to the Jesuits. It became a private school during the American occupation of the Philippines and received its university charter in 1959.

Personal: BSc in Chemistry, De La Salle University, Manila, Philippines; 2003, PhD, University of Connecticut; graduate work on synthesis of glycosphingolipids. Currently, Teacher, organic chemistry, organometallic chemistry and science and society, and current position. Associate Chair, Chemistry Department; Moderator, Ateneo, a student organization. Member: Phi Lambda Upsilon Chemistry Honor Society; Philippine Chemical Society; Integrated Chemists of the Philippines; National Research Council of the Philippines; International Union of Pure and Applied Chemistry Affiliate. Research interests: synthesis of compounds and materials with molecular recognition properties for separation, sensor and biomedical applications. Recipient of award, first place, National Academy of Science and Technology and Dupont Search for Young Scientists (2007).



Songkasiri

Warinthorn

Researcher

National Center for Genetic Engineering and Biotechnology, Thailand

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Nominated by: Thailand Academy of Sciences

Field of specialisation: Starch Engineering and Process Optimization, Water and Wastewater Treatment Technology

An organization first set up under the Thai Ministry for Science, Technology and Energy in 1983. After the establishment of the National Science and Technology Development Agency in 1991, it became one of its centres, operating outside the normal framework of civil service and state enterprises.

Personal: 1997, BSc (Hons) in Chemical Engineering; 1998, MSc (Hons) in Civil and Environmental Engineering, Carnegie Mellon University; PhD (Hons) in Civil and Environmental Engineering, Northwestern University; Dissertation on Biological Processes in Nuclear Waste Treatment, Stanford University; Royal Thai Scholarship; Member, Thai Academy of Science and Technology. Currently, Researcher, National Center for Genetic Engineering and Biotechnology, Biochemical Engineering and Pilot Plant Research and Development Unit, Thailand. Research interests: anaerobic wastewater treatment technology for food industries, biogas technologies, starch engineering and process optimization, sustainable water system in aquaculture, biological processes in nuclear waste treatment, bio-sorption and bio-reduction of nuclear waste treatment.



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Nominated by: Palestine Academy for Science and Technology

Field of specialisation: Nanoscience and nanotechnology

Established the first nanotechnology laboratory at Al-Quds University (Arab Palestinian University in East Jerusalem) and Palestine as well.

Personal: 2002, Ph.D in Physics from the Hebrew University in Jerusalem. Post doc in the field of Physical Chemistry. Research interests in molecular electronics, biosensors, and scanning probe microscopy techniques. Member of the scientific committee of SESAME "Synchrotron-light for Experimental Science and Applications in the Middle East"



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Field of specialisation: Photovoltaic solar energy conversion

Personal: 1992, BSc in Mathematics, National University of Lesotho; 1994 and 2000, MSc in Semiconductor Devices and PhD in Experimental Condensed Matter Physics, University of Lancaster, UK. Over 10 years' teaching and research experience in solar energy conversion and renewable energy systems. Formerly, Visiting Researcher: International Centre for Theoretical Physics; University of Durham. Author of academic papers. Recipient of honours and awards.



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Nominated by: National Academy of Sciences of Sri Lanka

Field of specialisation: Natural Products (Isolation and synthesis)

Institute of Chemistry is an academic institute founded in 1972 as the successor to the Chemical Society of Ceylon. It conducts tertiary level educational programs in chemistry and is currently the largest provider of graduate chemists in Sri Lanka

Personal: 1997, BSc in Chemistry, University of Sri Jayawardenepura; 2002, M.Phil in Biochemistry, University of Sri Jayawardenepura; 2007, Ph.D. in Organic Chemistry, University of Peradeniya. Assistant Editor, Member Academic Board, and Examination Board, Institute of Chemistry; Member, Sri Lankan Association of Advancement in Science. Formerly President Young Researchers Forum, University of Peradeniya, Research Fellow, International Centre of Chemical and Biological Science, University of Karachi, Pakistan. Recipient of awards and scholarships, first to receive full scholarship from National Science Foundation to carry out Ph.D. research in Sri Lanka.



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Nominated by: Royal Swedish Academy of Sciences

Field of specialisation: Applied Mathematics/Numerical Analysis. Numerical methods for partial differential equations, (PDEs) mainly with application to fluid mechanics.

Personal:

PhD in Numerical Analysis, KTH (2000). Postdoc , NADA, KTH (2000-2001). Postdoc, Courant Institute of Mathematical Sciences, New York University (NYU) (2001-2003). Assistant Professor of Mathematics, Courant Institute of Mathematical Sciences, NYU (2003). Promoted to Associate Professor with tenure at Courant Institute (2007). Docent in Numerical Analysis at KTH (2007).

Distinctions/Awards: Alfred P. Sloan Research Fellow, 2006. Research fellow of the Royal Swedish Academy of Sciences (KVA), June 2005, Carl-Axel Fröberg prize, 2004. Leslie Fox First Prize in Numerical Analysis, 2001. Werthen fellowship, 2001. President's fellowship (excellenstjänst) awarded at KTH (1997-2000).

Services: Board member of the Linne FLOW Centre at KTH, and coordinator of focus area Micro and Complex flows. Associate editor for BIT Numerical Mathematics. Editor, Mathematics in Industry book series , Springer Verlag.



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Field of specialisation: Material Science

A higher learning institution active in teaching, research and creative work.

Personal: PhD in Material Science. Materials scientist with over 10 years' research and university teaching experience. Member: Kenya National Academy of Sciences; Non-Destructive Testing Society of Kenya; DAAD; WAYS Africa. Author of articles in reviewed journals; presented articles in international conferences, symposia and workshops. Recipient of TWAS Young Scientist Award in Physics (2007).



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Nominated by: National Academy of exact, Physical and Natila Sciences, Argentina.

Field of specialisation: Surface Chemistry, Nanotechnology, Catalysis

Personal: PhD in Physical Chemistry, University of Cambridge. Currently Head, Surface Chemistry and Coatings Department, Tenaris Research and Development Centre. Fellow, Argentine National Council of Scientific Research. Lecturer in Surface Chemistry, University of Buenos Aires. Research focused on endowing surfaces with new properties by using nanoparticles; projects include self-cleaning surfaces, nanostructured surfaces, layer by layer self assembled monolayers, smart coatings and electrodeposition of nanostructured alloys and composite materials.



Vaz-Pinto

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Nominated by: Academia das Ciencias de Lisboa,
Portugal

Field of specialisation: Political Science and International
Relations

Personal:

PhD Political Science (thesis: *International Society, Standard of Civilisation, and the Abolition of the Death Penalty: the United Nations and China*); M Sc International Politics Asia and Africa, SOAS-University of London; BA International Relations; Member Executive Committee Portuguese Political Science Association since 2006; Currently working on a Research Project entitled: *Revisiting Isaiah Berlin: Liberty and International Society - A Comparative Analysis of the Right to a Fair Trial in the United States of America, People's Republic of China and Taiwan* (September 2006 – August 2009). Main research interests: human rights and, in particular, the question of the death penalty, religious freedom and the right to a fair trial; human and/or citizen rights and liberal democracies; International Relation Theories, in particular, the English School; and the evolution of humanitarian interventions and the issue of failed states.

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