

Speakers Profile

Prof. Dr. Zabta Khan Shinwari

Pakistan Academy of Sciences, Islamabad, Pakistan

Specialization: Bioethics, Preparedness and response, Biosafety, Surveillance and forecasting, Dual use education

Hailing from Kohat (Tribal Area Pakistan) Dr. Zabta Khan Shinwari obtained his PhD from Kyoto University, Japan, which he followed with several postdoctoral fellowships in Japan. He served the Pakistan Museum of Natural History, the National Agricultural Research Centre, WWF-Pakistan and COMSTECH before his appointment as Vice Chancellor of Kohat University of Science & Technology (KUST).

One of his major achievements is to extend higher education facilities to the neglected communities of Pakistan especially to girls and women. He also established the University of Science & Technology, Bannu. He is the founder of the KUST Institute of Medical Sciences (KIMS). Dr. Shinwari also served the private sector as CEO of Qarshi Research International and vice chancellor/PD Qarshi University-Lahore. He was tenured professor of biotechnology and dean of the Faculty of Biological Sciences in Quaid-i-Azam University, Islamabad, and president, National Council of Tibb, and also served as secretary general to the Pakistan Academy of Sciences.

In his research, Shinwari reported genes for drought, cold and stress tolerance. His publications: 9 books authored; 8 international proceedings edited; 445 articles in impact-factor journals, with more than 11,760 citations and an H index of 54. He has trained more than 100 MPhil & PhDs and registered two patents.

He is a fellow of the Pakistan Academy of Sciences and the Islamic World academy of Sciences. The Government of Pakistan awarded him two civil awards (Tamgha-e-Imtiaz) in 2012 and Sitara-e-Imtiaz in 2018. While recognizing his efforts in ethics in science and technology, UNESCO awarded him the Avicenna Gold Medal in 2015. He is also vice chair of World Commission of Ethics in Scientific Knowledge & Technology (COMEST) since 2016, and Focal Person of Alliance of International Science Organizations (ANSO-HO, China), 2016-2022.

Shinwari's main interest is in teaching and developing modules on Dual Use Education. He has been a partner in promoting biosecurity education in Pakistan, as well as being a key figure in Pakistan in terms of biosecurity and international engagement on biosecurity issues.

He has developed links with various national and international agencies to promote biosecurity education in Pakistan. His principal aim is to promote biosecurity from the grassroots upwards, for the economic improvement of Pakistan's growing biotechnology industry. Presently, he is Professor Emeritus, Quaid-i-Azam University, Islamabad.

Prof. Dr. SHABHAZ KHAN

Director, UNESCO Jakarta Office

Professor Shahbaz Khan (Australia) holds a Bachelor of Science (Honours) in Civil Engineering (1990) from the University of Engineering and Technology, Lahore (Pakistan); a Master of Science in Water Resources Technology and Management (1992) and a Doctorate in Civil

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Engineering (1995) from the University of Birmingham (United Kingdom); Graduate Diploma in Applied Geographic Information Science (2001) and a Grad Certificate in Information Technology (2003) from the Charles Stuart University in Wagga Wagga (Australia).

In 2005, Shahbaz obtained a Master's Degree in International Environmental Law from the Macquarie University (Australia) and in 2007 a Master's Degree in Applied Environmental Economics from the Imperial College London (United Kingdom). Shahbaz is a Fellow of the Institution of Engineers Australia, Hon Fellow of the Myanmar Engineering Society and Fellow of the Modelling and Simulation Society of Australia and New Zealand. Shahbaz is also a chartered engineer and engineering executive of Engineers Australia and was awarded Federation of Engineering Institutions in Asia and the Pacific (FEIAP) Engineer of the Year for 2016. Shahbaz is currently Adjunct Professor at the University of Canberra, Australia and Distinguished Professor at the National University of Science and Technology, Pakistan.

Shahbaz has worked in Australia, France and Pakistan in various research, consultancy and policy positions. Before joining UNESCO, Shahbaz was Professor and Director (International Centre for Food Security) at the Charles Sturt University, Research Director at Commonwealth Scientific and Industrial Research Organisation (CSIRO) and Programme Leader, System Harmonisation for Regional Irrigation Business Partnerships at the Cooperative Research Centre for Irrigation Futures, Australia. His work has been widely recognised, for example, through receipt of UNESCO Team Award for Managing Hydro Hazards 2009, Land and Water Australia's Eureka Prize 2007, CSIRO Medal 2007, Biennial Medal of the Modelling and Simulation Society of Australia and New Zealand, Charles Sturt University's Vice Chancellor's Research Excellence Award 2006, CSIRO Partner or Perish Award 2004, CSIRO Environmental Prize 2005 and CSIRO Land and Water "Exceptional Achievements Award" 2000. He has widely published in the area of water, environment and sustainable development and received several outstanding publications awards.

In 2008, Shahbaz joined UNESCO as Chief of the Water and Sustainable Development Section in the Division of Water Sciences in the Natural Sciences Sector in Paris until 2012 when he was transferred to UNESCO Office in Jakarta as Deputy Director and Senior Programme Specialist. As the Regional Science Coordinator, he was responsible for the development and implementation of the Office's science strategy, the coordination of the IHP and MAB programmes, project leader for major water, environmental and engineering projects and Chair of the UN Working Group on Climate Change and Environment. From January 2015 to August 2015, Shahbaz was entrusted with the Officer-in-Charge functions of the UNESCO Office in Jakarta. Since 28 August 2015, Shahbaz has been appointed as the Director of the UNESCO Regional Science Bureau for Asia and the Pacific and UNESCO Representative for Brunei Darussalam, Indonesia, Malaysia, the Philippines, and Timor-Leste.

Prof. Dr. Claudia Bauzer Medeiros

Claudia Bauzer Medeiros is full professor of databases at the Institute of Computing, University of Campinas (Unicamp), Brazil. She holds a degree in Electrical Engineering (1976) and an MSc degree in Computer Science (1979) from PUC-Rio, Brazil and a PhD in Computer Science from the University of Waterloo, Canada (1985). For the past 20 years, she has been working as a visiting professor at the University Paris-Dauphine, France. She has received Brazilian and international awards for research, teaching, and also for her work in fostering the participation of women in IT-related activities.

She is a Commander of the Brazilian Order of Scientific Merit, Dr. Honoris Causa from the University Antenor Orrego, Peru (2007), and Dr. Honoris Causa from the University Paris-Dauphine, France (2015). In 2018, elected for the Council of the Research Data Alliance, and as Member at Large of the Council of the ACM. In 2018, elected as a Member of the Brazilian Academy of Sciences. In 2020, elected member of the WDS Council. In 2021, elected member of the TWAS (World Academy of Sciences).

1. Member of the World Academy of Sciences - TWAS
2. Member of the Brazilian Academy of Sciences - ABC
3. Member of the Council of the Research Data Alliance - RDA
4. Member at Large of the ACM Council.
5. Co-coordinator of the eScience and Data Science program at FAPESP -- Fundacao de Amparo a Pesquisa do Estado de Sao Paulo
6. Former member of ACM Distinguished Speakers Program ACM DSP –
7. Ex-Ambassador for ACM's Committee on Women in Computing ACM-W
8. Ex- President of the Brazilian Computer Society (SBC) (2003-2007) and member of its Governing Council - 2007—2011

Her research is centered on the design and development of scientific databases. Her main interests lie in facing the challenges posed by large, real world applications, which require handling distributed and very heterogeneous data sources. In particular, she has coordinated large multidisciplinary projects, in Brazil, involving applications in agro-environmental planning and biodiversity. Data to be handled include, among others, sensor data streams, satellite images, photos, videos, sound and all kinds of textual sources. She has also coordinated research projects in scientific data management, workflow systems and geographic information, in cooperation with universities and research labs in Brazil, Germany and France