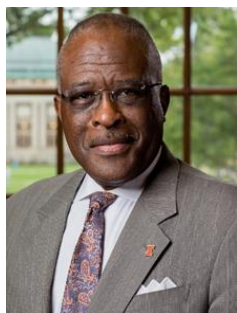


Workshop on a Transformational Africa-U.S. STEM University Partnership

March 14 - 16, 2022

Keynote Speakers

Robert Jones, Chancellor, University Illinois at Urbana-Champaign, USA



Robert J. Jones is the 10th chancellor of the University of Illinois Urbana-Champaign. He previously served as president of the University of Albany, State University of New York following a 34-year career as a faculty member and senior administrator at the University of Minnesota. His leadership at Illinois, the state's flagship public research university, has seen the launch of the Carle Illinois College of Medicine, the nation's first engineering-based medical school, the receipt of two of the largest gifts in the university's history resulting in the endowed naming of two colleges, the launch and achievement of a historic \$2.25 billion fundraising campaign goal more than a year ahead of schedule and the invention of a novel, affordable, accurate and rapid COVID-19 testing ecosystem that allowed the

university to safely resume in-person instruction during a global pandemic. His tenure has also been distinguished by significant initiatives to increase access and affordability for all students and to foster a more diverse and inclusive university. Jones created the first vice-chancellor-level diversity office and senior leadership position at Illinois. And he established the Illinois Commitment Scholarship program that offers four years of free tuition to nearly 2,000 Illinois families each year. Throughout his career, Jones has worked to make education available to promising young scholars around the world. From 1984-1994, he worked with Archbishop Desmond Tutu's South African Education Program (as an academic and scientific consultant) which educated more than 3,000 black South Africans in American Universities. Jones also serves on the Board of Directors of APLU, Campus Compact, the Farm Foundation, the Donald Danforth Plant Science Center, and the National 4-H Council. He is a fellow of the American Society of Agronomy and the Crop Science Society of America. He was elected a member of the American Academy of Arts and Sciences in 2019.

Prabhas Moghe, Exec. VP Acad Affairs, Rutgers University, USA



As EVPAA, **Prabhas Moghe** forges strategies and develops initiatives to strengthen the academic enterprise at Rutgers. He serves as the president of Rutgers University's chief adviser on academic matters, leads all university wide faculty support programs, and coordinates academic priorities across the central administrative offices and chancellor-led units. In this role, he works closely with both the chancellors and their provosts and gives voice to a collective vision that will propel Rutgers among our finest peer institutions.

Since joining Rutgers in 1995, Moghe was named a Distinguished Professor of Biomedical Engineering, and Chemical and Biochemical Engineering, in 2013. He has made many contributions to interdisciplinary graduate education, biomedical and health sciences, and nanomedicine. His research has led to innovations in cancer detection and potential nanotechnology therapies for brain degenerative disorders like Parkinson's disease. He has directed two National Science Foundation-sponsored graduate training programs spanning 12 years—in biologic interfaces and in stem cell science and engineering. In addition to his School of Engineering appointment, he has also served as an adjunct professor of surgery at Robert Wood Johnson Medical School since 2008 and is full member of the Rutgers Cancer Institute of New Jersey. He has been named a fellow of the Biomedical Engineering Society, the American Institute of Medical and Biological Engineering, and the International Union of Societies for Biomaterials Science and Engineering. In July 2019, he was appointed as provost and executive vice chancellor for research and academic affairs for Rutgers–New Brunswick.

In his work to date, Moghe has championed academic excellence, strongly supported undergraduate and graduate education, and strengthened faculty recruitment and development. As provost, he has been an advocate for elevating cross-disciplinary research at Rutgers in the humanities and the arts, information and computing sciences, and environmental, life, and health sciences. He has also launched programs to promote the advancement of women in STEM fields and programs to foster a more vibrant, innovative, and creative mindset among Rutgers students. Moghe has established a number of institutional initiatives and partnerships to nurture and expand research across a broad spectrum of fields, including the humanities, data sciences, life and health sciences, and advanced manufacturing.

Darryll Pines, President, University of Maryland, USA



Darryll J. Pines is Dean and Nariman Farvardin Professor of Aerospace Engineering at the Clark School since January 2009. He first arrived at the Clark School in 1995 as an assistant professor and then served as Chair of the Department of Aerospace Engineering from 2006 to 2009. During a leave of absence from the University (2003-2006), Pines served as Program Manager for the Tactical Technology Office and Defense Sciences Office of DARPA (Defense Advanced Research Projects Agency). While at DARPA, Pines initiated five new programs primarily related to the development of aerospace technologies, for which he received a Distinguished Service Medal. He also held positions at the Lawrence Livermore National Laboratory (LLNL), Chevron Corporation, and Space Tethers Inc. At LLNL, Pines

worked on the Clementine Spacecraft program, which discovered water near the south pole of the moon. A replica of the spacecraft now sits in the National Air and Space Museum. Pines received a B.S.

in mechanical engineering from the University of California, Berkeley. He earned M.S. and Ph.D. degrees in mechanical engineering from the Massachusetts Institute of Technology.

Geraldine Richmond, Under Secretary of Science and Energy, U.S. Dept. of Energy, USA



Geraldine (Geri) Richmond is the Under Secretary for Science and Innovation at the Department of Energy (DOE). In this role she oversees DOE's Office of Science, the nation's largest federal sponsor of basic research in the physical sciences, DOE's applied R&D areas of nuclear, fossil, and renewable energy, and energy system integrity, and the DOE national laboratories and their facilities.

She is currently on leave from the University of Oregon where she holds the Presidential Chair in Science and Professor of Chemistry. Richmond's research throughout her career has been on the use of laser-based and computational methods to understand the molecular, adsorption structure and dynamics at liquid surfaces that have relevance to environmental and technological interests.

She is a member of the U.S. National Academy of Sciences and the American Academy of Arts and Sciences and has been honored by numerous awards including the National Medal of Science (2016), the Priestley Medal from the American Chemical Society (2018) and the Linus Pauling Medal Award (2018).

Her service to the nation includes serving two terms as a presidential appointee to the National Science Board (2012-2021) and as the U.S. State Department Science Envoy for the Lower Mekong River Countries (2015-2016). In addition to serving on many other national and international advisory boards, Richmond has been President of the American Association for the Advancement of Science (AAAS) and Sigma Xi, and the Scientific Research Honor Society.

A career-long advocate for underrepresented groups in STEM fields, she is the founding director of a grassroots organization called COACH that has helped over 25,000 women scientists and engineers in career advancement in the U.S. and in dozens of developing countries around the world. A native of Kansas, Richmond received her B.S. in chemistry from Kansas State University and her Ph.D. in physical chemistry at the University of California, Berkeley.

Panelists

Karl Adam, Public Diplomacy Desk Officer for Southern Africa, US Department of State, USA



Karl Adam is a career member of the U.S. Foreign Service currently serving in Washington D.C. as the Public Diplomacy Desk Officer for Southern Africa. Previously he led public engagement and the higher education portfolio at the U.S. Embassy in New Delhi. Prior to India, Karl was the Spokesperson and Press Officer at the U.S. Embassy in Port-au-Prince, Haiti, and has also served at U.S. Embassies in N'Djamena, Chad and Quito, Ecuador. Karl earned his BA in Chemistry, History and German at Texas Tech University, and his MA in History at the University of Chicago. Before joining the Foreign Service, Karl was a Peace Corps Volunteer in the Islamic Republic of Mauritania, as well as working at IES Abroad and Cartus International. Karl speaks French, German, Spanish and Wolouf. His spouse is a USAID Foreign Service Officer, and he is the proud father of three young children.

Charles Awono, Professor and Rector, Universite Des Montagnes, Bangante, Cameroon



Awono Onana is a full professor of applied and computational mathematics. He has been involved in many international projects as a Coordinator. Among these projects are : ERMIT (a mobility international project financed by EU in the framework of the INTRA ACP program), AFRICOM (a mobility regional project financed by EU in the framework of the INTRA Africa program), Coordinator of the CETIC, the African Center of Excellence in ICT, a project financed by the World Bank in the framework of the African centers of excellence program, Coordinator AGIR (a project financed by the IMF in the framework of the Debt Release Initiative program). Professor Awono is also coordinating the Project of Centers of Excellence of Central Africa, a project supported by UNESCO and the ECCAS.

Professor Awono has also been involved in the Tuning Africa project where he has coordinated the team in charge of mechanical engineering. He has been an invited professor in many universities across the world. He is currently President of the Université des Montagnes in Cameroon.

Kwabena Biritwum Nyarko, Vice Dean, Civil and Geo Engineering, KNUST, Ghana



Kwabena Biritwum Nyarko has a BSc in Civil Engineering from the Kwame Nkrumah University of Science and Technology, Kumasi Ghana, MSc and PhD from UNESCO-IHE Water Institute in Delft, Netherlands. He has been working for the past 25 years in the field of Water Supply and Environmental Sanitation at the Department of Civil Engineering, Kwame Nkrumah University of Science and Technology (KNUST). His research interest covers water transport and distribution, sanitation technologies, and sustainable water and sanitation service delivery. He is currently the Vice Dean, Faculty of Civil and Geo-Engineering. He was the Head of Petroleum Engineering Department. He is also leading KNUST Engineering Education project, a five (5) year with \$5.5 million budget focusing on improving

the quality of postgraduate education in engineering. He has also chaired several accreditation panels for the Ghana Tertiary Education Commission for several Civil Engineering undergraduate programmes in Ghana. He also chairs the Executive Board of West Africa Sustainable Engineering Network for Development (WASEND) – made up of the four Colleges of Engineering in West Africa under the Africa Centres of Excellence (ACE) Impact Project.

Prof Nyarko has over hundred publications to his credit in peer reviewed journals, conference proceedings, working papers, book chapters and briefing notes.

Jeremy Coats, Institute for International Education, USA



Jeremy Coats serves as the Lead of Foundation Programs at the Institute of International Education (IIE). He oversees IIE's Diaspora Programing, including the Carnegie African Diaspora Fellowship Program and other programs in Greece and Albania. He also manages the Agricultural Transformation Initiative Fellowship and Scholarship Fund for Malawian students and scholars to study and conduct research in STEM fields. He served in the Peace Corps in Mali, West Africa as an instructor of American studies at the University of Mali, Bamako, and at the Conservatory of Arts and Multimedia Balla Fasseké Kouyate, Bamako. He lived in South Korea where he was part of a teaching and research team tasked with creating innovative speaking and writing curricula for high school students. His other experiences include program monitoring and evaluation, teacher training, and communications.

Felix Dakora, President, African Academy of Sciences, Kenya



Felix Dakora is the President of the African Academy of Sciences. He obtained his BSc (Hons) degree in Agriculture from the University of Ghana in 1977, an MSc degree from the University of Sydney, Australia, in 1981, and a PhD in Botany from the University of Western Australia, Perth, 1989. He currently holds a South African Research Chair in Agrochemurgy and Plant Symbioses at the Tshwane University of Technology, South Africa; and is Fellow and President of the African Academy of Sciences. In 2012, he won the UNESCO-Equatorial Guinea International Prize for Research in the Life Sciences, and the African Union Kwame Nkrumah Science Excellence Continental Award in 2016. He is a Member of the Academy of Sciences of South Africa, Fellow of the Royal Society of South Africa, and TWAS Fellow. He currently serves as Adjunct Professor to the University of Western Australia for the period June 2012 to May 2021. His research has contributed to our current understanding of the signalling and protectant roles of legume molecules such as flavonoids, alkaloids, amino acids, terpenoids and isoflavonoid phytoalexins, as well as of rhizobial metabolites such as lumichrome, riboflavin and indole acetic acid, especially in plant functioning and the expression of bacterial nodulation genes. His work contributes food legumes for overcoming micronutrient deficiency in Africa. He has published 427 papers (which comprise 119 peer-reviewed journal articles, 16 Book Chapters and 292 peer-reviewed Conference papers/abstracts) and a Book entitled: "Biological Nitrogen Fixation: Towards Poverty Alleviation through Sustainable Agriculture" published by Springer. He is the current President of The African Academy of Sciences.

Lola Eniola-Adefeso, Associate Dean for Graduate and Professional Education, University of Michigan, USA



Omolola Eniola-Adefeso is the University Diversity and Social Transformation Professor of Chemical Engineering and Biomedical Engineering at the University of Michigan-Ann Arbor. She received a doctoral degree (2004) in Chemical and Biomolecular Engineering at the University of Pennsylvania. She was a postdoctoral associate in the Pediatrics/Leukocyte Biology at Baylor College of Medicine. Dr. Eniola-Adefeso joined the faculty of Chemical Engineering at the University of Michigan in 2006, where she runs the Cell Adhesion and Drug Delivery Laboratory. Since she arrived at Michigan, Dr. Eniola-Adefeso has received several honors and awards, including the NSF CAREER Award, American Heart Association Innovator Award, and most recently, the BMES MIDCAREER Award. She is a fellow of the American Institute for Medical and Biological Engineering (AIMBE) and the Biomedical Engineering Society and serves as Deputy Editor for Science Advances. Her research is currently funded by multiple grants from the NIH NHLBI, American Heart Association, and the National Science Foundation.

Hicham Fenniri, Mohamed VI Polytechnic University, Morocco



Hicham Fenniri received all his degrees from the University of Strasbourg, France. After a postdoctoral fellowship at the Scripps Research Institute, CA, USA, he moved to Purdue University, IN, USA (1997) as an assistant professor, and established the Purdue Laboratory for Chemical Nanotechnology (1999). In 2003, he joined the National Research Council as a founding member of the National Institute for Nanotechnology and as professor of chemistry and biomedical engineering at the University of Alberta (Canada). In 2013 he joined Northeastern University, Boston, MA, as Professor of Chemical Engineering, Bioengineering, Chemistry & Chemical Biology. Starting in 2022, Professor Fenniri serves as director of research and innovation for University Mohamed VI Polytech. He is also the scientific director of the Moroccan Foundation for Advanced Science Innovation and Research (MAScIR). Dr. Fenniri's contributions appeared in over 220 publications, 21 patents and patent applications, and over 500 contributed national and international conference papers. Dr. Fenniri has also lectured extensively around the globe and has been an invited professor at several institutes and universities.

Norman Fortenberry, Exec. Director, American Society for Engineering Education, USA



Norman Fortenberry, is executive director of the American Society for Engineering Education (ASEE). The Executive Director of ASEE has the direct and full-time responsibility for executive and administrative management of the continuing operations and Headquarters functions of ASEE and serves as secretary to the Board of Directors. Fortenberry was appointed to his post in May 2011. ASEE is a global society of individual, institutional, and corporate members founded in 1893 and committed to advancing innovation, excellence, and access at all levels of education for the engineering profession through instruction, research, public service, professional practice, and societal awareness.

Fortenberry was previously the founding director of the Center for the Advancement of Scholarship on Engineering Education (CASEE) at the National Academy of Engineering (NAE). CASEE was NAE's first operating center, promoted research on teaching and learning and sought to translate research results into improved educational practices in pre-college, collegiate, and work-based settings.

Prior to joining NAE, Fortenberry served senior advisor for policy, analysis, and planning to NSF's assistant director for education and human resources. He concurrently served as director of the Division of Undergraduate Education (DUE) at the National Science Foundation (NSF). DUE is the focal point for the Foundation's efforts to enhance the quality of education for future scientists and engineers, future teachers, future technicians, and educated citizens in an increasingly technological society. While serving as director of DUE, Fortenberry also served for 2 years as director of NSF's division of Human Resource Development (HRD) – making him the first person to simultaneously serve as head of two separate NSF divisions. HRD is the focal point for the Foundation's efforts to enhance access, participation, and success in science, technology, engineering and mathematics research and education at all levels for institutions and populations underrepresented in STEM including minority serving institutions, women, underrepresented minorities, and persons with disabilities.

Before becoming a division director at NSF, Fortenberry served as Executive Director of the National Consortium for Graduate Degrees for Minorities in Engineering and Science, Inc. (The GEM Consortium), a national alliance of employers and universities dedicated to increasing the number and success of graduate degree recipients in engineering and science drawn from underrepresented minority populations.

Fortenberry began his career as a member of the mechanical engineering faculty at the Florida A&M University – Florida State University College of Engineering. Fortenberry is a fellow of ASEE and of the American Association for the Advancement of Science. Fortenberry is the author or co-author of more than 49 peer-reviewed publications and has written proposals for funded projects exceeding \$18.9 million. Fortenberry was awarded bachelor's, master's and doctoral degrees in mechanical engineering by the Massachusetts Institute of Technology.

Andrew Gerard, Lead, PEER Program, USAID, USA



Andrew Gerard is Program Manager of the Partnerships for Enhanced Engagement in Research (PEER) Program at USAID, which provides grants to developing country researchers who partner with US government-funded scholars to conduct research on development challenges. Prior to coming to USAID, he completed a Ph.D. in Community Sustainability at Michigan State University (MSU), where he focused on coffee sector development in Rwanda. While at MSU, he managed the Academy for Global Engagement, which provided MSU faculty opportunities and funding to build out their global research networks. Previously, Andrew worked at Washington, DC-based international development organization the Global Knowledge Initiative (GKI). His work at GKI focused on building global research networks and collaborating with African governments and other stakeholders on science and technology policy and strategy. In addition to his Ph.D., Andrew has a Master of Public Policy from Georgetown University and a bachelor's degree in Behavioral Sciences from Andrews University.

Evgeni Gousev, Chairman, tinyML Foundation, USA



Evgeni Gousev is a Senior Director of Qualcomm AI Research. He leads Qualcomm R&D organization in the Bay area and is responsible for developing ultra low power embedded computing platform, including always on machine vision. He serves as the Chairman of the Board of Directors of tinyML Foundation (www.tinyML.org), a non-profit organization of 8000+ professionals in 34 countries including more than a thousand in Africa. The Foundation is focused on supporting and nurturing the fast-growing branch of ultra-low power machine learning technologies and approaches dealing with machine intelligence at the very edge. Evgeni earned a Ph.D. degree in the solid-state physics and M.S. in Applied Physics. After graduation, he joined Rutgers University first as a Postdoctoral Fellow and then as a Research Assistant Professor. While at Rutgers, he performed fundamental research in the area of advanced gate dielectric for CMOS devices, which, a decade later, became industry wide standards. In 1997, he was a Visiting Professor with the Center for Nanodevices and Systems, Hiroshima University, Japan. Shortly after, he joined IBM, where he led projects in the field of advanced silicon technologies in Semiconductor Research and Development Center in East Fishkill and T.J. Watson Research Center in Yorktown Heights, NY. He has co-edited 26 books and published more than 166 papers (with over 11k citations and h-index of 49: Google Scholar). He is a holder of more than 100 issued and filed patents. Dr. Gousev is a member of several professional boards, committees, panels, and societies. In 2020, Evgeni was inducted into the “Hall of Fame” of SEMI MEMS and Sensors Industry Group.

Bouthaina Guermazi, Director, Regional Integration for Africa/MENA, World Bank, USA



Bouthaina Guermazi, a Tunisian national, joined the Bank in 2004 as a Regulatory Specialist. She has since held several positions of progressive responsibility in the Information and Communication Technologies (ICT) teams, including Practice Manager for the Digital Development teams covering the Middle East and Africa Regions, and World Bank Director for Digital Development. She became the World Bank Director for Regional Integration for Sub-Saharan Africa, the Middle East and North Africa since October 18, 2021. In this position, she oversees the implementation of the World Bank Group’s regional integration strategy and leads the policy dialogue and partnership with regional organizations, country clients, and partners. Bouthaina holds a PhD in Civil Law from McGill University.

John Hildebrand, Professor, University of Arizona, and International Secretary, National Academy of Sciences, USA



John G. Hildebrand, originally trained in chemistry and biology, is a neurobiologist whose research focuses on the neural mechanisms and behavioral roles of olfaction in insects including agricultural pests and disease vectors. Dr. Hildebrand has received many honors and awards, including election to the German National Academy of Sciences 'Leopoldina' (1998), Norwegian Academy of Science and Letters (1999), American Academy of Arts and Sciences (2001), U.S. National Academy of Sciences (2007), Royal Norwegian Society of Sciences and Letters Academy (2011), American Philosophical Society (2014), Brazilian Academy of Sciences (2019), and The World Academy of Sciences (2022). Following earlier faculty appointments at Harvard and Columbia Universities, he joined the

University of Arizona in Tucson in 1985 as the founding head of its Department of Neuroscience. He is Regents Professor of Neuroscience and Professor of Chemistry and Biochemistry, Ecology and Evolutionary Biology, Entomology, and Molecular and Cellular Biology. Colleagues cite Dr. Hildebrand for his advocacy for general education in STEM and for access to and success in scientific careers for women and minorities. He has been International Secretary of the NAS since 2014.

Charles Ichoku, Professor, Howard University and Dist. Scientist, NCAS-M, USA



Charles Ichoku is a Professor of Earth and Environmental Sciences in the Department of Interdisciplinary Studies within the College of Arts and Sciences (COAS) at Howard University, Washington, DC. He is also the Distinguished Scientist of the NOAA Cooperative Science Center in Atmospheric Sciences and Meteorology (NCAS-M), a thirteen-member academic consortium constituted to diversify the student population trained in Atmospheric and Environmental Sciences, Meteorology, and other fields that are aligned with NOAA's mission enterprise.

Dr. Ichoku received his Ph.D in Earth Sciences from the Pierre & Marie Curie University, Paris, France, and his M.S. and B.S. degrees in Remote Sensing and Surveying, respectively, from the University of Nigeria, Enugu Campus. Prior to joining Howard University in the fall of 2018, he was a Research Physical Scientist at NASA Goddard Space Flight Center, Greenbelt, Maryland, where he was involved in a variety of Earth Science research and related activities for 20 years (1998–2018). His scientific activities over the years have included developing and applying both experimental and remote sensing approaches to research in interdisciplinary earth sciences. He is actively involved in the development of innovative approaches for characterizing land-atmosphere interaction processes, analyzing the energetics and emissions of wildfires and biomass burning, evaluating atmospheric aerosol retrievals from satellite observations, and elaborating the impacts of these phenomena on the environment and climate. He is experienced in environmental research and capacity development in Africa.

Ticora Jones, Chief Scientist, USAID, USA



Ticora V. Jones, Ph.D. is the Agency Chief Scientist, Acting Director for the Innovation, Technology & Research Hub, and Managing Director for Research in the ITR Hub of the US Agency for International Development. She manages research and development programs for the Agency that build bridges between development professionals and universities through a multidisciplinary lens on science, technology, innovation and entrepreneurship. Beginning in 2009 as a AAAS Diplomacy, Security, and Development Fellow, she helped manage the establishment of an Agency-wide agenda for science and technology through policy and programming designed to elevate USAID's presence in this area.

Prior to joining USAID, Dr. Jones served as the 2008-2009 Materials Societies Congressional Fellow for Senator Russell D. Feingold (D-WI) where she worked on energy and environment issues. Before beginning her congressional fellowship, Dr. Jones conducted post-doctoral research focused on creating and characterizing nanoparticle/composite-based functional materials at Lawrence Livermore National Laboratory. Dr. Jones earned her BS degree in Materials Science and Engineering from MIT and her PhD in Polymer Science and Engineering from the University of Massachusetts at Amherst.

Jackie Kado, Executive Director, Network of African Science Academies, Kenya



Jackie Kado is the Executive Director of the Network of African Science Academies (NASAC) based in Nairobi, Kenya. NASAC is a consortium of science twenty-eight science academies in Africa, whose membership is drawn from all spheres of science. She has served science academies in various capacities since the establishment of NASAC in 2001. Jackie holds a Master's Degree in Project Planning and Management and Bachelor's Degree in Education (Mathematics and Commerce) from the University of Nairobi in Kenya. She is currently a PhD candidate in Human Development at the Atlantic International University, USA. Jackie is passionate about people-centered organizational development that encourages use of

homegrown solutions to tackle local societal challenges. She also serves in several community, regional and international committees.

Elsie Kaufmann, Associate Professor, University of Ghana, Ghana



Elsie Effah Kaufmann is Founding Head of the newly established Department of Orthotics and Prosthetics at the University of Health and Allied Sciences, Ghana. She is also an Associate Professor and Founding Head of the Department of Biomedical Engineering at the University of Ghana. Elsie began her education in Ghana then proceeded on scholarship to the United World College of the Atlantic in Wales where she obtained an International Baccalaureate Diploma in 1988. She went on to earn a Bachelor of Science in Engineering (BSE), Master of Science in Engineering (MSE) and PhD in Bioengineering all from the University of Pennsylvania. After her graduate studies she received her postdoctoral training at Rutgers University, serving also as founding Director of the Cell Biology Laboratory at the New Jersey Center for Biomaterials, and thereafter joined the University of Ghana in 2001.

Elsie has contributed immensely towards the development of Science education at all levels in Ghana and beyond. She is noted for her contribution to the establishment of the School of Engineering Sciences as well as the development of several other academic programmes (Physiotherapy, Radiography, Audiology and Medical Physics) at Ghana's premier university. She is probably best known for her role, since 2006, as Host and Quiz Mistress of the hugely popular Ghana National Science & Mathematics Quiz TV Programme for Senior High Schools. Her contributions to STEM education have been recognized with several national and international awards. She was inducted as a Fellow in Biomaterials Science and Engineering (FBSE) by the International Union of Societies for Biomaterials Science and Engineering (IUSBSE) in 2020. Elsie is a Council member of the Ghana Institution of Engineering and the current President of the Ghana Society of Biomedical Engineers.

Fred Matiang'i, Cabinet Secretary, Coordination of National Government, Government of Kenya, Kenya



Fred Matiang'i is the Cabinet Secretary for Interior and Coordination of National Government of the Republic of Kenya and the Chairperson of the National Development Implementation and Communication Cabinet Committee. He has previously served as Cabinet Secretary for Information, Communication and Technology (ICT), Lands and Physical Planning as well as Education.

Before his appointment to cabinet as Cabinet Secretary, Dr. Matiang'i was the Regional Representative in East Africa for the Centre for International Development, Rockefeller College of Public Affairs and Policy, the State University of New York (SUNY/CID). He previously served as Chief of Party for Kenya's Parliamentary Strengthening Program.

Dr. Matiang'i held research and program implementation positions in various civil society organizations in Kenya and conducted research and training for the Commonwealth Parliamentary Association, the World Bank Institute, United Nations Development Programme (UNDP), among others. He taught at Egerton University and the University of Nairobi.

Dr. Matiangi's education includes a PhD in Communication and Comparative Literature from the University of Nairobi, an M.A in English from the University of Nairobi, and a Bachelor of Education degree from Kenyatta University.

His portfolio in the National Development Implementation and Communication Cabinet Committee entails overseeing the central framework for coordination of all National Government Development Programmes and Projects and reporting on the same to His Excellency the President of the Republic of Kenya. It is set in Executive Order No 1 of 2019 and encompasses providing supervisory leadership throughout the delivery cycle, offering guidance on mitigation of challenges, monitoring and evaluating progress and ensuring proper resource utilization and realization of the targeted outcomes.

Barnabas Nawangwe, Vice Chancellor, Makerere University, Uganda



Barnabas Nawangwe is the Vice Chancellor of Makerere University since 1st September 2017. He holds a PhD in Architecture from the Kiev National University of Construction and Architecture. Prior to assuming his current position, Prof. Nawangwe served as the Deputy Vice Chancellor in charge of Finance and Administration of Makerere University (2013-2017), Principal of the College of Engineering, Design, Art and Technology (2012-2013), the Dean of the Faculty of Technology (2002-2012), the Head of the Department of Architecture (1989-2002), all at Makerere University.

As Vice-Chancellor, Prof. Nawangwe has concentrated his efforts on transforming Makerere into a modern research-led University. In order to achieve this, he has presided over several Interventions aimed at making Makerere a more efficiently and professionally managed institution, including restructuring of academic programmes, restructuring of the administration function, digitisation of all administrative processes, approval of policies to support research and innovation and others.

Prof. Nawangwe is an architect by profession and his research interests are in vernacular architecture, social housing and sustainable urbanisation. He has published more than 70 papers in these areas.

Joel Ogbonna, Dean & ACE-CEFOR Leader, University of Port Harcourt, Nigeria



Ogbonna F. Joel, is a Professor of Petroleum Engineering with the University of Port Harcourt. He is the African Regional Representative of National Registry of Environmental Professionals (NREP, USA).

He was the immediate past Dean, Faculty of Engineering, University of Port Harcourt. He is the Centre Leader for the World Bank Africa Centre of Excellence for Oil field Chemicals Research, University of Port Harcourt, Nigeria.

Prior to moving to the University of Port Harcourt, he worked with Halliburton Energy Services, Nigeria for 18 years where he held various Senior Management positions ranging from Technology Manager to Scientific Advisor. He has several years of international exposure with Halliburton Research Centre, Duncan, USA, where he worked with experts in oilfield

chemicals and developed global best practices in Research Management and developed several local oilfield chemicals substitutes for deployment in Nigeria. He is a subject expert in Oilfield Chemicals Research and applications. While in Halliburton Energy Services, he pioneered research on the use of local cement for oil field application in Nigeria. Specializes also in the management of environmental and pollution control issues in the Oil and gas Industry.

He is a member of various professional bodies, a Registered Engineer (COREN), Fellow of the Institute of Safety Professional of Nigeria (FISPON) and Fellow of Nigerian Society of Chemical Engineers (FNSChE). He has published over 140 papers in international and local journals and given numerous presentations both local and International in his expertise.

In collaboration with another team of researchers developed two patents and was a recipient of many grants. He is also a member of Technical Advisory Board for Research and Development of Nigerian Content Development Monitoring Board(NCDMB).

A Visiting Professor and External Examiner to many Universities in Africa and Nigeria. He is the Managing Consultant and founder of Pollution Control and Environmental Management (POCEMA) LTD, an indigenous company that specializes in Environmental Management and Pollution Control as well as local Content Research in oilfield Chemicals.

Mamokgethi Phakeng, Vice Chancellor, University of Cape Town, South Africa



Mamokgethi (Kgethi) Phakeng began her term of office as Vice-Chancellor of the University of Cape Town on 1 July 2018. She holds a PhD in Mathematics Education from the University of the Witwatersrand and is a highly regarded scientist with over 80 research papers and five edited volumes published. Her major awards include the 2016 Order of the Baobab (Silver); the 2014 CEO Magazine's most influential woman academic in Africa Award, in 2020 she was included in *Forbes'* inaugural list of the 50 Most Powerful Women in Africa and in July 2019 the University of Bristol conferred on her an Honorary Doctorate in Science in recognition of her leadership role in mathematics education in South Africa. She is member of the Academy of Science of South Africa (ASSAf); an honorary life

member of the Association for Mathematics Education of South Africa (AMESA); Fellow of the African Academy of Sciences (AAS) and The World Academy of Sciences (TWAS). She is founder of the Adopt-a-learner Foundation, a non-profit organisation that started in 2004 and provides financial and educational support to students from township and rural areas to acquire higher education qualifications. Since 2018, she donates 20% of her monthly salary to a scholarship fund to support financially needy students, particularly black women registered for postgraduate study at the University of Cape Town.

Kendra Sharp, Office Head, Office of International Science and Engineering, National Science Foundation, USA



Kendra Sharp has served as the Head of the Office of International Science and Engineering (OISE), National Science Foundation, since February 2021. In her role as OISE head, Sharp focuses on increasing access for U.S. principal investigators to engage in global research that addresses pressing challenges; building greater capacity for U.S.-based students and faculty to access training and other opportunities in science diplomacy; developing and supporting robust collaborations between international universities or university consortia; and collaborating with other federal agencies. Since 2010, Sharp has been a faculty member in mechanical engineering at Oregon State University, and she held the

Richard and Gretchen Evans Professorship of Humanitarian Engineering from 2015 to 2020. Her research and teaching interests include design for international development, applications of technology in humanitarian engineering, and sustainable water and energy systems. She also served as the university's Senior Advisor for Global Affairs and Associate Vice Provost for Faculty Development. Sharp has extensive international research and teaching experience, including as a visiting researcher at the Delft University of Technology in The Netherlands; a Visiting Erskine Fellow at the University of Canterbury in New Zealand; and as part of the organizing and instructional teams at multi-week international development design summits in India, Pakistan and Thailand. Sharp also led OSU's participation in the United States Agency for International Development-funded Partner Center of Advanced Studies in Energy with Arizona State University and two universities in Pakistan.

Winston Soboyejo, Provost, Worcester Polytechnic Institute, USA



Prior to joining WPI, **Winston (Wole) Soboyejo** was a Professor in Mechanical and Aerospace Engineering at Princeton University for approximately 17 years. He is a materials scientist whose research focuses on biomaterials and the use of nanoparticles for the detection and treatment of disease, the mechanical properties of materials, and the use of materials science to promote global development. His current projects include the use of nanomaterials for targeting and treating cancer; a shear assay technique that may be able to measure the mechanical properties of organelles in the cell; the development of low cost solar cells/light emitting devices; and sustainable approaches to providing clean water, affordable housing and education to people in the developing world. Dr. Soboyejo

brings to WPI an exceptional record of achievement in engineering research and academic leadership, as well as impressive accomplishments in international development and a noteworthy track record in building global research and educational partnerships. For example, he founded the U.S./Africa Materials Institute at Princeton, one of six international materials institutes supported by the National Science Foundation. He has also served as President and Provost of the African University of Science and Technology (AUST) in Abuja, Nigeria, a Pan-African university founded by the Nelson Mandela Institutions (NMI). Dr. Soboyejo has also served as the chair of the African Scientific Committee of the NMI. He held research positions at the McDonnell Douglas Research Laboratories in St. Louis and the Edison Welding Institute in Columbus, Ohio, as well as faculty positions at The Ohio State University and MIT, before joining the Princeton faculty in 1999.

Hulda Swai, Professor and ACE-CREATES Leader, NM-AIST, Tanzania



Hulda Shaidi Swai is a Tanzanian Professor at the renowned Nelson Mandela African Institution of Science and Technology (NM-AIST) in Arusha since 2015 and she has been a great champion of the Institutional vision and mission on Academia for Society and Industries.

NM-AIST is part of a network of Pan-African Institutions of Science and Technology located across Sub-Saharan Africa (SSA). These institutions are the proud brainchild of the late Nelson Mandela and they envision training and developing the next generation of African scientists and engineers with a view to impacting profoundly on the continent's development through the application of Science, Engineering and Technology and Innovation (SETI).

Prof. Hulda Swai is a proud alumna of the University of Dar es Salaam where she obtained her Bachelor of Science Majoring in Chemistry and Statistics in 1980. Her great contribution as a Scientist saw her being recognized as a University of Dar es Salaam Alumna of the Month in October, 2020. In 1985, Prof. Swai obtained her Master of Science (MSc), Technology and Development in Chemical Engineering degree from University of London, Imperial college of Science and Technology. In 2000 Prof. Swai got her PhD in Biomedical Materials Science, Biomaterials in Dentistry from University of London, Queen Mary & Westerfield College. Even though she obtained all her graduate qualifications and began her research career in the United Kingdom, her passion has always been to have an impact in Africa through her expertise and Scientific niche. As such, she made a bold move to relocate to Africa immediately she obtained her PhD in 2000. She initiated her ground-breaking research and training in South Africa in 2001 at the (CSIR) Council for Scientific and Industrial Research, where she worked till 2015, and then moved back home to Tanzania. Prof Swai has been creating impactful research and making very commendable strides since 2015 at NM-AIST.

Nelson Torto, Permanent Secretary, Ministry of Tertiary Education, Research, Science and Technology, Government of Botswana, Botswana



Nelson Torto is the Permanent Secretary in the Ministry of Tertiary Education, Research, Science and Technology in Botswana. He is the former Executive Director of The African Academy of Sciences (The AAS) and the former Chancellor of ABM University College in Botswana. He was the founding Chief Executive Officer of the Botswana Institute for Technology Research and Innovation (BITRI). He was also the the Founding Director of the Centre for Scientific Research Indigenous Knowledge and Innovation (CesriKi) at the University of Botswana. He has had several advisory responsibilities globally, including for Falling Walls, Grand Challenges Africa, Science Granting Council Initiative, Swedish Foundation for International Cooperation in Research and Higher Education (STINT),

Wellcome, African Union Commission, Next Einstein Forum, World Meteorological Organization. He has a PhD in Analytical Chemistry from Lund University in Sweden, MSc Analytical Chemistry from the University of Botswana, and a BSc Chemistry from the Chemistry School of Hons of the University of Manchester Institute of Science and Technology (UMIST) in the United Kingdom. He is a recipient of several awards, including the American Chemical Society Young Separation Science Award and is Fellow of the Royal Society of Chemistry, Founding Fellow of the Botswana Academy of Sciences and Fellow of

the African Academy of Sciences. He is an Ontology Coach as well as a Time To Think Coach and Facilitator.

Vaughan Turekian, ED, Policy and Global Affairs Division, National Academies of Sciences, Engineering and Medicine (NASEM), USA



Vaughan Turekian is the executive director of the National Academies' Policy and Global Affairs Division (PGA). Prior to joining the Academies, he served as the fifth science and technology adviser to the U.S. secretary of state. In this capacity, he advised the secretary of state and other senior State Department officials on emerging science, technology, and health matters affecting the foreign policy of the United States. He is currently the co-chair of the 10 member group of advisers to the U.N. secretary general on the role of science, technology, and innovation to advance the achievement of the Sustainable Development Goals. He has affiliations with Georgetown University School of Foreign Service and the University College London.

Previously, Turekian was chief international officer for the American Association for the Advancement of Science and the founding director of its Center for Science Diplomacy. In this capacity, he worked to build bridges between nations based on shared scientific goals, placing special emphasis on regions where traditional political relationships are strained or do not exist. In addition, Turekian worked at the State Department as a special assistant and adviser to the undersecretary for global affairs (2002 - 2006).

Turekian holds a B.S. in geology and geophysics and international studies from Yale University and an M.S. and Ph.D. from the University of Virginia, where he focused on the transport and chemistry of atmospheric aerosols in marine environments.

Kevin Urama, Acting Chief Economist & Vice President, and Senior Director of the African Development Institute, African Development Bank, Côte d'Ivoire



Kevin Chika Urama, FAAS is currently the Acting Chief Economist/Vice President, responsible for Economic Governance & Knowledge Management at the African Development Bank Group. He is also the Senior Director of the African Development Institute at the African Development Bank Group, responsible for shaping and leading the bank-wide capacity development in the Regional Member Countries (RMCs) to accelerate delivery of the High 5 priorities of the Bank, the SDGs and Agenda 2063. Prior to his appointment as Senior Director of the African Development Institute, he was Senior Advisor to the President of the African Development Bank Group on Inclusive and Green Growth – Strategy, Policy Development, and Implementation.

Prof. Urama is an elected Fellow of the African Academy of Sciences (AAS); a Distinguished Professor of the University of Nigeria; an Extra-Ordinary Professor in the School of Public Leadership, Stellenbosch University, South Africa; an Adjunct Professor at the Sir Walter Murdoch School of Public Policy and International Affairs, Murdoch University, Western Australia; an Expert Partner of the Africa Progress

Group Chaired by Former President Olusegun Obasanjo, and was Visiting Professor at the Department of Science, Technology, Engineering and Public Policy, University College London.

He has held various executive leadership positions in the academia, international organizations, the private sector, and is currently in a multilateral development bank. Prior to joining the African Development Bank, he was the inaugural Managing Director of the Quantum Global Research Lab established in Zug, Switzerland; former Executive Director of the African Technology Policy Studies Network (ATPS) established in Nairobi Kenya; Director of Research and Training of the ATPS; Senior Research Fellow at the Macaulay Land Use Research Institute established in Aberdeen, United Kingdom; Deputy Chairman of the OMFIF Economists Network, and inaugural President of the African Society for Ecological Economics (ASEE), and Lecturer at the University of Nigeria.

Kevin holds a Ph.D. in Land Economy from the University of Cambridge, United Kingdom; an MPhil in Land Economy with a Distinction from Cambridge University; a Master of Science in Agricultural Economies from University of Nigeria, and a Bachelor's Degree in Agricultural Economics with a First Class Honors from the University of Nigeria. He won the 2002-2003 James Claydon Prize for the most outstanding Ph.D. thesis in economics or related fields at St. Edmund's College, University of Cambridge. He was named the Technology Executive of the Year by the Africa Technology Awards in 2012. He has published in various media and has served on / contributed to many international and inter-governmental scientific panels/reports including the Intergovernmental Panel for Climate Change (IPCC); Green Growth Best Practice (GGBP); the International Resource Panel (IRP); the OECD Green Growth and Poverty Reduction Task Team; the UNESCO Governing Board of the International Research and Training Centre for Science and Technology Strategy (CISTRAT), Beijing, China; and the Green Growth Knowledge Platform (GGKP) Advisory Committee; the High-Level Panel on Global Assessment of Resources for implementing the Strategic Plan for Biodiversity 2011-2020; among others. He serves on various boards and global research committees to deliver inclusive green growth and sustainable development

Valentine Uwamariya, Hon. Minister of Education, Govt. of Rwanda, and Chair, PASET Governing Council, Rwanda



Valentine Uwamariya is the Minister of Education in the Government of Rwanda. Before her appointment, she was serving as the Deputy Vice Chancellor in Charge of training, Institutional Development and Research at Rwanda Polytechnic (RP) where she was responsible for providing science and technology based technical and vocational training which enable the beneficiaries to create jobs for personal development. She also served as a Dean of the School of Science at the College of Science and Technology (University of Rwanda) before joining Rwanda Polytechnic.

Dr Valentine holds a B.Sc. in Chemistry from the former National University of Rwanda (NUR). She got her Msc degree in Chemistry from Witwatersrand University (Johannesburg-South Africa) in 2005. In 2013, she obtained her PhD from UNESCO-IHE and Delft University of Technology (The Netherlands) in Water Science and Environmental Technology. Dr Valentine has been involved in teaching/research for 19 years at University; her area of research was mainly focusing on water quality related issues. She has published several papers in peer reviewed journals and attended national and international conferences. She has held other important responsibilities in the Rwandan Society, sat on Boards of local companies; and she is a member of Local and International Organizations.

Organizers

Brian Arbic, Professor of Earth and Environmental Sciences, University of Michigan, USA



Arbic is a former Peace Corps volunteer and a physical oceanographer. His group's research, funded by NASA, NOAA, DOE, NSF, and the Office of Naval Research, focuses on tides, internal gravity waves, mesoscale eddies, and the role of the ocean in weather and climate. Arbic founded the Coastal Ocean Environment Summer School in Ghana (COESSING; <https://coessing.org>), which has been running for one week every year since 2015, and the Global Ocean Corps and Conveyor (<https://globaloceancorps.org>), a global effort to increase collaborations with oceanographers from less-resourced nations. The COESSING and Ocean Corps teams include many early career scientists and scientists from less-resourced nations. COESSING has been endorsed as a project of the UN Decade of

Ocean Science for Sustainable Development, and Ocean Corps has been endorsed as a global programme of the Decade.

Sajitha Bashir, Former Global Adviser and Manager, Africa Education at the World Bank, USA



Bashir has played a pioneering role in the World Bank's support for science and technology in Africa, including financing of the Africa Centres of Excellence regional project, creating the Partnership for skills in Applied Sciences, Engineering and Technology, and establishing the first pan-African science fund, the PASET Regional Scholarship and Innovation Fund. She led the Bank's global work on converging technologies and human capital and on digital skills. She has worked in the human development sectors in Africa, Latin America, South Asia and the Middle East. Prior to joining the World Bank, she headed the national research and evaluation unit of the Government of India's national education program.

Johanna Bernstein, Assistant Dean for Global Program, Rutgers University, USA



Bernstein, a materials scientist by training, works with faculty to develop multi-disciplinary strategic initiatives that expand the university's international partnerships. She is co-Director of the Rutgers Mandela Washington Fellowship Leadership Institute in Business, and coordinates the University Administrators Support Program, a capacity building program for university research administrators at Eastern European and African universities. Bernstein is an international member of the African Materials Research Society.

Andries Coetzee, Director, African Studies Center, Senior Advisor (African Engagement) to the Provost, and Professor of Linguistics, University of Michigan, USA



Coetzee's research straddles the areas of theoretical and descriptive linguistics. He is involved in a multi-year project documenting the unique variety of Afrikaans spoken in a 120 year old expatriate community in rural Patagonia, Argentina. He is also currently focusing on the linguistic landscape of Potchefstroom, a mid-sized post-apartheid South African city. Coetzee holds honorary appointments at the North-West University and the University of Johannesburg, both in South Africa. He is deeply engaged in developing and supporting the University of Michigan's strategic engagements with institutions of higher education in Africa.

J. Henrike Florusbosch, Manager, e-Health and Artificial Intelligence, University of Michigan, USA



Florusbosch is an anthropologist who has conducted ethnographic fieldwork and archival research, primarily in and about Mali. She serves as inaugural manager of e-HAIL, a strategic initiative between Michigan Medicine and the College of Engineering to make the University of Michigan (U-M) a premier hub for e-Health and Artificial Intelligence. Previously, Florusbosch managed U-M's African Studies Center and administered the U-M African Presidential Scholars (UMAPS) program, a residency program for early and mid-career scholars based at universities in Africa. She has taught at the University of Leiden, the Netherlands, and at U-M.

Eric Garfunkel, Vice President for Global Affairs and Distinguished Professor of Chemistry and Physics, Rutgers University, USA



During his 30+ years at Rutgers, **Garfunkel** has been playing a leading role in two nanoscience and technology institutes while focusing his research on the atomic scale design, characterization and manipulation of materials and devices. He has helped lead the international activities of the Materials Research Society for two decades and has served on the Board. Garfunkel has also helped to coordinate the African Materials Research Society conferences for the past 14 years. As Vice President of Global Affairs at Rutgers, he remains deeply involved in developing global partnerships and research collaborations with African universities.

Sossina Haile, Professor of Materials Science and Engineering, Northwestern University, USA



Sossina M. Haile is the Walter P. Murphy Professor of Materials Science and Engineering at Northwestern University, a position she assumed in 2015 after serving 18 years on the faculty at the California Institute of Technology. She earned her Ph.D. in Materials Science and Engineering from the Massachusetts Institute of Technology in 1992. Sossina Haile's research broadly encompasses materials, especially oxides, for sustainable electrochemical energy technologies. She has established a new class of fuel cells with record performance for clean and efficient electricity generation, demonstrated electrochemical cells for hydrogen production from electricity for long-term energy storage, and created new thermochemical approaches for harnessing sunlight to meet rising energy demands. She has published approximately 200 articles and holds 14 patents on these and other topics. Amongst her many awards, in 2008 Sossina Haile received an American Competitiveness and Innovation Fellowship from the U.S. National Science Foundation in recognition of "her timely and transformative research in the energy field and her dedication to inclusive mentoring, education and outreach across many levels." In 2008 she was also named by Newsweek Magazine as one of 12 people to watch. She is a fellow of the Materials Research Society, the American Ceramics Society, and the African Academy of Sciences, and a corresponding Fellow of the Ethiopian Academy of Sciences. Sossina Haile also leads the Joint Undertaking for an African Materials Institute (JUAMI), which holds two-week, live-in advanced study workshops, featuring tutorials on cutting-edge energy materials topics, hands-on experiments and learning activities, and research seminars by top materials scientists.

Nkem Khumbah, STEM Africa Initiative, University of Michigan, USA



Khumbah has been consulting for and closely working with multiple regional and international organizations, including the African Union, select African governments, the World Bank African Centers of Excellence Project, UNESCO, Washington-based Constituency for Africa (CFA), the Association of African Universities, the African Network of Science and Technology Institutes (ANSTI), among others. He served in 2015 as Founding Executive Curator of the Next Einstein Forum (NEF): Africa's Global Forum for Science, Policy and Society. He served as the Science and Technology chair of the first ever African Continental Summit on Higher Education in 2015, and co-authored recommendations that were adopted by the African Union, at its establishment of a committee of 10 African Heads of States as continental Champions of Science and Education. He currently serves on the steering Committee of the African Light Source Initiative, and as a Senior Fellow of the Global Federation of Competitiveness Councils.

Dalal Najib, Director, Science and Engineering Capacity Development, Policy and Global Affairs Division, National Academies of Sciences, Engineering and Medicine (NASEM), USA



Najib leads Science and Engineering Capacity Development activities including early career engagement, international collaborations and institutional capacity building activities. She is the program director for the Arab-American Frontiers program of Science, Engineering and Medicine at NASEM in partnership with MENA based S&T institutions. She is the Principal investigator on the NSF-funded ACCELNET award, PEER2PEER, a novel network of networks in transboundary water security spanning the Middle-East, North Africa and Central Asia. Dr. Najib also worked on the USAID- funded Partnership for Enhanced engagement in Research (PEER) program where she managed the sub-Saharan Africa, Middle-East and the Central Asia portfolios. Najib holds a PhD in Climate and Space Sciences and Engineering and a master's degree in Public Policy.

Reitumetse Obakeng Mabokela, Vice Provost for International Affairs & Global Strategies, and Professor, College of Education, University of Illinois, Urbana–Champaign, USA



Mabokela is a former *Fulbright New Century Scholar* and *Fulbright International Education Administrators* program participant in France. Her research seeks to understand experiences of marginalized populations and aims to inform and influence institutional policies that affect these groups within institutions of higher education. Her research centers on the examination of three interrelated themes: 1) organizational change and organizational culture in higher education; 2) gender in higher education; and 3) higher education in transitional societies.

Anne Petersen, Research Professor (Adjunct), University of Michigan, ISD/COEng & Survey Research Center, ISR; Faculty Affiliate: ASC STEM & STPP, Ford School, USA



Petersen is the Founder/President of the Global Philanthropy Alliance, a foundation making grants to young entrepreneurs in Africa. She also currently chairs the Policy and Global Affairs Divisional Committee at the National Academies of Science, Engineering and Medicine. Petersen serves on National Research Council Governing Board, National Science Foundation International Committee, and the Physical Sciences Division Council at the University of Chicago, among other US/global voluntary boards/committees. Petersen is a former Deputy Director of the National Science Foundation.

Daniel Placht is an Associate Program Officer in the Policy and Global Affairs Division, National Academies of Sciences, Engineering and Medicine (NASEM), USA



Placht is an associate program officer in the Policy and Global Affairs division of the U.S. National Academies of Sciences, Engineering, and Medicine (NASEM). He currently directs the Connections to Sustain Science in Latina America program, and works on the Arab-American Frontiers, US-Africa Frontiers, and PEER programs which focus on international development and capacity building through improved access to science and technology. Before joining NASEM, Daniel worked at the International Law Institute in Washington, DC as well as multiple international development NGOs in Cairo, Egypt. He holds an undergraduate degree in international affairs from Bard College and a master's in environmental science and engineering from Virginia Tech.

Flannery Wasson, Senior Program Assistant in the Policy and Global Affairs Division, National Academies of Sciences, Engineering and Medicine (NASEM), USA



Wasson is a Senior Program Assistant in the Policy and Global Affairs division of the U.S. National Academies of Sciences, Engineering, and Medicine (NASEM). She currently assists with the New Voices in Science, Engineering and Medicine Program, ongoing workshops with the director of the Program on Central Europe and Eurasia, and the International Visitors Office in the Board on International Scientific Organizations. Before joining NASEM, Flannery worked in policy and video campaigns for various NGOs. She holds an undergraduate degree in political science from the University of Arkansas.