

Science and Innovation Fund for Ukraine

Committee

Marcia McNutt

Co-Chair

Marcia Kemper McNutt is an American geophysicist and the 22nd president of the National Academy of Sciences (NAS) of the United States.

McNutt was the 15th director of the United States Geological Survey (USGS) (the first woman to hold the post) as well as science adviser to the United States Secretary of the Interior from 2010 to 2013. Before working for USGS, McNutt was president and chief executive officer of the Monterey Bay Aquarium Research Institute (MBARI), an oceanographic research center in the United States, professor of marine geophysics at the Stanford University School of Earth Sciences, professor of marine geophysics at University of California, Santa Cruz, and professor of geophysics at the Massachusetts Institute of Technology.

She served as editor-in-chief of the peer-reviewed journal *Science* from 2013 to 2016 and holds a visiting appointment at the Scripps Institution of Oceanography. She is a member of the National Academies of Sciences, Engineering, and Medicine advisory committee for the Division on Earth and Life Studies and the Forum on Open Science.

David N. Spergel

Co-Chair

David Nathaniel Spergel is an American theoretical astrophysicist and the Emeritus Charles A. Young Professor of Astronomy on the Class of 1897 Foundation at Princeton University. Since 2021, he has been the President of the Simons Foundation. He is known for his work on the Wilkinson Microwave Anisotropy Probe (WMAP) project. In 2022, Spergel accepted the chair of NASA's UAP independent study team.

Spergel graduated summa cum laude with a Bachelor of Arts (AB) from Princeton University in 1982, after completing a senior thesis on red giants under the supervision of Gillian R. Knapp. He then went to the University of Oxford as a visiting scholar in 1983, where he studied with James Binney. He obtained his Master of Arts (AM) in 1984 and his PhD in 1985, both from Harvard University.

Cathy Campbell

Ex Officio Member

Cathy Campbell has dedicated her career to advancing international science and technology cooperation and has worked with Ukraine for more than 30 years. She is the retired President/CEO of CRDF Global, which she joined in 2002. Campbell served from 1998-2002 as director of the Office of International Policy and Programs, Department of Commerce's Technology Administration. From 1995-1997, she was a senior policy analyst in the White House Office of Science and Technology Policy. Campbell was the U.S. State Department's program officer for Soviet/Russia/Ukraine science and technology affairs from 1989-1995, and previously conducted research at Presearch, Inc., the Federal Research Division of the Library of Congress, and the Rand Corporation. She currently chairs the RESET Ukraine Action Group under the NAS Roundtable on Global Science Diplomacy and is a member of the Board of Governors, US-Israel Binational Science Foundation. Campbell is an AAAS Honorary Fellow and previously served as a Visiting Scholar, AAAS Center for Science Diplomacy.

Kevin Covert

Ex Officio Member

Kevin Covert serves as the Director of Eastern European Affairs at the U.S. Department of State, leading a team of foreign policy professionals advancing U.S. interests in Ukraine, Moldova, and Belarus. He is a Senior Foreign Service Officer with prior service as the director for Afghanistan Affairs, Deputy Chief of Mission in New Zealand in 2019-22, Chargé at the U.S. Embassy in Dushanbe, Tajikistan, and Deputy Economic Counselor from 2014 to 2017 in Seoul. In 2013-14, Kevin served on the Russia Desk and as Director for Russia on the National Security Council, where he helped design sanctions on Russia following its illegal annexation of Crimea. Previously, Kevin was Deputy Political-Economic Chief at U.S. Embassy Astana (2008-11) and Director for Strategic and Performance Planning (2005-08). Before joining the Department in 2005, Kevin worked as a USAID contractor for more than a decade to privatize state-owned enterprises, develop capital markets, and attract foreign investment in Ukraine, Serbia, Kosovo, Russia, and Georgia. Kevin speaks Ukrainian, Russian, and French, and has studied Arabic, Kazakh, Korean, Tajik, and Te Reo Maori. Kevin is an alumnus of Cornell University, Pembroke College (Oxford), and Georgetown University's School of Foreign Service.

Denys Kurbatov

Ex Officio Member

Dr. Denys Kurbatov is currently the Deputy Minister, Ministry of Education and Science of Ukraine. He is also the Head of the Research Department, Sumy State University, Ukraine, and the Leading Researcher of the Laboratory of Optoelectronics and Solar Power Engineering, Sumy State University, Ukraine.

In the position of deputy minister, he coordinates work on the transformation of the research sphere of Ukraine. After the end of the war, it should become an important foundation for rebuilding the country's economy on new principles. As the Head of the Research Department, he annually organized the work regarding the fulfilment of ~ 1000 R&D projects by a request of more than 400 enterprises and organizations of different ownership forms from more than 15 countries.

Dr. Kurbatov won the scholarship of the Cabinet of Ministers of Ukraine for young scientists in 2012-2014; 2016-2018. In 2002, he won the Master of sports of Ukraine (auto model sport).

His post graduate studies were in electronics and information technologies Faculty, specialty ? Solid state physics, Sumy State University, Ukraine.

Vladimír Šucha

Member

Vladimir Šucha served as the Head of the European Commission Representation in the Slovak Republic (EC Ambassador to Slovakia) from 2022 to 2024. In January 2025, he will transition to the European University Institute in Florence as a visiting professor. Before (2021) he was a senior policy adviser at UNESCO. He was in the leading positions of the Joint Research Centre – a scientific and knowledge service of the European Commission between 2012 – 2019 (it is a type of science advisory posts and head of large research institution). Before he spent 6 years in the position of director for culture and media in the Directorate-General for Education and Culture of the European Commission. Before joining the European Commission, he held various positions in European and international affairs. Between 2005 and 2006, he was director of the Slovak Research and Development Agency, national body responsible for funding research. In parallel, he has followed a long-term academic and research career, being a full professor in Slovakia and visiting professor/scientist at different academic institutions in many countries. He published more than 100 scientific papers in peer-reviewed journals. His expertise is covering Earth sciences, environmental sciences, innovation ecosystems, education systems, science-policy interaction, and prospective technological studies.

Thomas M. Connelly, Jr.

Member

Thomas M. Connelly, Jr., served as Executive Director and CEO of the American Chemical Society from 2015 to 2023. Prior to joining ACS, he served as Chief Science and Technology Officer, and then as Chief Innovation Officer, for the DuPont Company. In these roles, he was responsible for science and technology with special emphasis on polymer science, chemical process development and, later, bioprocessing for chemical synthesis and production. At DuPont, Connelly led R&D organizations and businesses while based in the US, Europe and Asia. He graduated with highest honors from Princeton University with degrees in Chemical Engineering and Economics. As a Winston Churchill Scholar, he received his doctorate in chemical engineering from the University of Cambridge. Connelly was elected to the National Academy of Engineering and chaired the National Research Council Division Committee for Earth and Life Studies. He has served in advisory roles to the U.S. Government and the Republic of Singapore.

Joan Gabel

Member

As the 19th chancellor of the University of Pittsburgh, Joan Gabel oversees a community of more than 34,000 students and 16,000 faculty and staff members across five distinct campuses, all working to advance Pitt's legacy of academic excellence, community service and research innovation.

During her tenure, the University has achieved record new student applications, graduation rates, postgraduation placement and research expenditures. Gabel also led the creation of the University's first metrics-driven strategic plan, the Plan for Pitt 2028, which prioritizes the University's values and impact. To ensure a Pitt education remains accessible and affordable, she launched the innovative Pitt Finish Line Grant to provide just-in-time financial support for students nearing graduation.

Since her arrival, Gabel became a founding member of College Presidents for Civic Preparedness, which has grown to represent 100 colleges and universities. She serves as chair of the Fulbright Scholar Advisory Board (CIES); as chair-elect of the board of the Association of Public and Land-grant Universities; as academic vice-chair of the Council on Competitiveness; and on the boards of the American Council on Education and the Association of American Universities.

Gabel previously served as the president of the University of Minnesota (U of M) System and Twin Cities campus. Under her leadership, U of M developed its first comprehensive systemwide strategic plan, which resulted in record-setting graduation rates and annual research expenditures, as well as unmatched startups, patents and private giving, including the completion of a \$4 billion capital campaign that exceeded its goal by 10%. Transformational partnerships, such as the NXT GEN MED program between the university, Mayo Clinic and Google, led to reimagined research and student opportunities.

Charles M. Marcus

Member

Charles Marcus has spent his career investigating quantum coherent phenomena in mesoscopic electronics. Early work, following a PhD on the unrelated topic of neural networks, focused on ballistic conductance fluctuation and quantum chaos. In this system, the shape of the structure, rather than disorder, is responsible for the chaotic trajectories of electrons and can be controlled by confinement. The role of decoherence-how classical emerges from quantum in chaotic system-was emphasized. In the following decade, Marcus's focused on spin physics in open mesoscopic structures and few-electron quantum dots. These small spin systems realized spin qubits, following the theory of Loss and DiVincenzo. In spin qubits, a principle source of decoherence is coupling of individual electron spins to ensembles of nuclear spins in the host material. Around this time, Marcus became connected to Microsoft research, and investigated possible non-Abelian excitations in the fractional quantum Hall effect. Upon moving to NBI in Copenhagen in 2012, Marcus continued investigating emergent non-abelian modes in the solid state, focusing on superconductor-semiconductor systems, including nanowires, 2D semiconductor heterostructures, and recently selective area grown hybrid materials.

Jeff Martin

Member

Through the marketing and development of ground-breaking technologies, Jeff Martin has spent his career applying innovation to multimedia product design. Martin continues to build new mobile commerce channels by changing the way consumers engage with entertainment, business, and social impact.

Martin spent eight years as an executive at Apple – and was the global head of new media, entertainment, and design markets and a direct report to Steve Jobs. He was instrumental in the multimedia marketing strategy, design, and launch of numerous digital music and video products, Power Mac, iMac and Mac OS X, as well as Apple's growth in China.

In the early 2000s when at Beatnik Inc., Martin helped pioneer mobile multichannel audio software enabling phones to play music, and in 2005, helped market the first iTunes phone, the Motorola Rokr, two years before the iPhone. He championed the use of the NFC chip that led to the first mobile wallet technology to create unique and personal interactions between artists/fans and brands/consumers including mobile ticketing and interactive audio at concerts.

Martin founded Tribal Brands in 2001 and Tribal Technologies in 2008. Both companies played a pivotal role in the evolution of the mCommerce industry, using behavior economics, mobile analytics, and content personalization to drive consumer trust and transactions.

In 2014, Martin founded Tribal Planet, a Silicon Valley-based technology company that provides innovative, mobile consumer engagement platforms. The gamified content experiences, powered by a best-in-class content provider ecosystem, develop skills critical to the future of work such as STEM, SEL, and Financial Literacy, and social impact activities around the U.N. 17 SDGs. The proof of impact analytics engine enables corporate brands to build trust with younger generations and develop their talent pipeline.

Martin was appointed by the United States National Academies of Sciences, Engineering, and Medicine to join the flagship roundtable for Sustainability and Climate Change and sits on the Smithsonian's national advisory board for science and education (SSEC). Martin was also appointed by the UN Under-Secretary-General to the UNFPA Global Advisory Board for Innovation and was the first co-chair of the Albert Einstein Foundation.

Joël Mesot

Member

Joël Mesot has been President of ETH Zurich (Swiss Federal Institute of Technology Zurich) since 2019. He grew up in Geneva, then studied physics at ETH Zurich, where he obtained his doctorate in 1992 with a thesis on high-temperature superconductors. After a research stay at the Institut Laue-Langevin (France), he continued his scientific career at the Paul Scherrer Institute (PSI) and Argonne National Laboratory (USA) where he worked on various quantum materials and familiarized himself with the method of Angle-Resolved Photoemission Spectroscopy (ARPES). In 2004, he became head of the neutron scattering laboratory at PSI. In 2008, he was promoted to Director of the PSI – the largest public research institute in Switzerland – and appointed full Professor of Physics at ETH Zurich. For his scientific work Mesot received in 1995 the IBM Prize from the Swiss Physical Society and in 2002 the Latsis Prize for ETH Zurich. He is a member of national and international advisory boards, including the Board of Trustees of the Swiss Innovation Park and the Governing Board of CREATE (Singapore). In his current role, he assumes overall political and legal responsibility for ETH Zurich, a leading university with 520 professors and 25,000 students.

Fiona Murray

Member

Fiona Murray is the Associate Dean of Innovation at the MIT School of Management and the William Porter (1967) Professor of Entrepreneurship. She is the Faculty Director of MIT's Office of Innovation and also Faculty Director of the MIT Legatum Center for Development and Entrepreneurship. She leads teaching activities in innovation and entrepreneurship for mid-career executives in the MIT EMBA Program, and is Co-Faculty Director of the MIT Regional Entrepreneurship Acceleration Program.

Fiona is Vice Chair of the NATO Innovation Fund and has served on the British Prime Minister's Council on Science and Technology and was awarded a CBE (Commander of the British Empire) for her services to innovation and entrepreneurship in the United Kingdom. She is also a member of the Ministry of Defence Innovation Advisory Panel and the European Innovation Council Joint Expert Group.

Fiona is an international expert on the intersection of deep tech ventures, risk capital and geopolitics. She has worked extensively on examining how investments in science and technology (research and education) can be translated into ventures that scale to solve significant global challenges and create national advantage – from defence and security to health, food and water security. Her expertise includes the ways in which public and private capital can be deployed through a variety of investment structures to meet clear mission goals.

Fiona is an associate of the National Bureau of Economic Research. She received her BA '89 and MA '90 from the University of Oxford in chemistry. She subsequently moved to the United States and earned an AM '92 and PhD '96 from Harvard University in applied sciences.

Dmytro Pokhylko

Member

Dmytro Pokhylko is the Director of Strategic Initiatives and Lab-to-Market (L2M) Accelerator Network at Columbia Technology Ventures, Columbia University technology transfer office. Dmytro drives execution of strategic initiatives to strengthen academic commercialization ecosystems and deepen their relationships with industry and public partners. He serves as Director of Innovation Ecosystems for the NSF Engineering Research Center for Smart Streetscapes (CS3) and is an Adjunct Associate Professor at the Department of Biomedical Engineering of Columbia SEAS.

Dmytro brings almost two decades of strategy, public policy, technology, and start-up experience. Prior to Columbia, he led efforts of B.Amsterdam, Europe's largest tech hub, to launch its American flagship outpost in NYC. He also served as Vice President at the New York City Economic Development Corporation during the Bloomberg and de Blasio administrations, where he drove the development and implementation of the NYC's initiatives to strengthen its tech ecosystem, focusing on infrastructure (workspace, broadband, financing), as well as talent and community development. Prior to joining NYCEDC, Dmytro worked at several NYC-based start-up companies in media-tech, education-tech, and professional career advice sectors.

Dmytro is a graduate of Baruch College, CUNY, where he earned an MSc Degree in Financial Engineering and a BA Degree International Business and Marketing.

Mina A. Teicher

Member

Prof Mina Teicher is the former Chief-Scientist of Israel government. One of the leading scientists in mathematics and its applications to neuroscience, computer vision, cybersecurity, complex systems, and medical devices. She served as the Director of the Emmy Noether Institute for 20 years (retired), lectured worldwide, mentored 80 Students for PhD/MS/Postdoc, published 150 papers, and received numerous prestigious grants, editorial posts, and awards.

She has major influence on international science policy. As Chief-Scientist she was in charge of funding public research, international agreements, the Israel Space Agency, the inclusion of Israel in the 7th R&D Framework. She chaired the USA-Israel Binational Science Foundation, the German-Israeli Foundation, the Grants Committee of the Wolf Foundation, and evaluation committees of leading research Institutes.

She designed and facilitated Technology-Transfer from Academia to Industry. As Vice-President for R&D of Bar-Ilan University, she was in-charge of commercialization of patents and established numerous spinoff companies. She advises governments and universities on innovation schemes and sits on companies' boards.

She advocated for Science-for-Society, co-funded the UNESCO Digital global campus for Mathematics and Complexity for developing markets, participated in the USA-based think-tank for Ethics of Brain-Machine Interface, built Gender-Action-Plan for European-Union S&T, and currently leads a multi-level program to advance Women in Mathematics across the Americas, based in Miami.

Yuliia Bezvershenko

Staff Officer