

Emerging Technologies Symposium: Quantum Computing, Artificial Intelligence, and 5G

Welcome Remarks



Margaret Peterlin

Senior Vice President, AT&T Global External and Public Affairs

Margaret Peterlin is an agile leader who flexibly transitions across industries and organizations, having recently served as the third-ranking official at the U.S. Department of State as Chief of Staff to Secretary Rex Tillerson. While Chief of Staff, Margaret managed the Office of the Secretary for a department of 77,000 globally distributed employees and participated in engagements with more than 35 heads of state and 80 foreign ministers. Previously, she was a global executive at Mars, Inc., co-lead a large federal agency, worked for both the Speaker and the Majority Leader of the House of Representatives, clerked for a U.S. Court of Appeals Judge, and served as a commissioned officer in the U.S. Navy.

As the Global Technology Strategy Officer for Mars, Inc., she developed the framework to identify and prioritize Mars, Inc.'s tier-one risks and opportunities. This corporate officer role included reshaping the Board's Technology Committee.

At the U.S. Patent & Trademark Office (USPTO), Margaret served as the Deputy Undersecretary for Intellectual Property (IP) and the Deputy Director of the USPTO. As Deputy Director, she operated as the COO to provide strategic leadership to over 9,700 (mostly unionized) employees and 2,600 contractors and management of a \$2.1B budget.

As Deputy Undersecretary, Margaret led U.S. delegations abroad and testified before Congress. Before her shift to the Executive Branch, she served as a Policy Analyst and Counsel for Legal Policy for the Speaker of the House, eventually serving as his National Security Advisor.

Margaret joined AT&T Services, Inc. in 2018 and was appointed Senior Vice President-Global External and Public Affairs. She is responsible for all external and regulatory affairs outside the United States. Here in the U.S., she is responsible for public affairs strategy and D.C.-based media. Additionally, she holds a key leadership role in AT&T's cohesive strategy across the federal government.

Fireside Chat



John Donovan

CEO – AT&T Communications, LLC

John Donovan is responsible for the bulk of AT&T's global telecommunications and U.S. video services businesses, including its Business, Mobility and Entertainment, and Technology & Operations groups. AT&T Communications is one of four distinct business units operating under AT&T Inc.

Previously, John served as chief strategy officer and group president – AT&T Technology and Operations. In that role, he led strategic planning for the company. He also led the company's networks and technologies team, which has driven AT&T's global leadership in the transition

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to software-defined networking – with a focus on virtualized or cloud-based network controls – as well as the company’s leadership in the move to 5G networks. In that role, he also oversaw the company’s global information, software development, supply chain, network operations, and big data organizations, as well as AT&T’s Intellectual Property group, Labs and Foundries.

Prior to that, John served as AT&T’s chief technology officer, overseeing the company’s global technology direction and innovation road map.

Since joining the company in 2008, John has played a role in significantly expanding its innovation program. AT&T is now recognized as an industry leader in working with application developers and others to make AT&T’s network open to collaboration and innovation.

John previously was executive vice president of product, sales, marketing, and operations at VeriSign Inc., an internet infrastructure company. He also was chairman and CEO of inCode Telecom Group Inc., where he helped shape strategy for wireless carriers worldwide. And he was a partner with Deloitte Consulting, where he was the telecommunications practice director for the Americas.



Secretary Rick Perry

United States Secretary of Energy

Rick Perry currently serves as the 14th United States Secretary of Energy. He leads an agency tasked with maintaining a safe, secure, and effective nuclear deterrent and reducing the threat of nuclear proliferation, overseeing the United States’ energy supply, carrying out the environmental clean-up from the Cold War nuclear mission, and managing the 17 National Laboratories, home to the country’s best scientists and engineers.

Secretary Perry is a veteran of the United States Air Force, a former farmer and rancher, and the longest-serving governor in Texas history, having led the world’s 12th-largest economy from 2000 to 2015. He has devoted his adult life to creating prosperity and opportunity for families.

Prior to joining the Administration as Secretary of Energy, Perry served as the 47th Governor of Texas. As Governor of the Lone Star State, Perry championed conservative principles that helped Texas become America’s economic engine. Under Perry’s leadership, Texas became a national leader for job creation, innovation, and population growth.

Perry’s leadership of Texas proved that economic growth and protection of the environment can be achieved simultaneously. While adding population and more than 2.2 million jobs during his tenure, Texas also experienced major reductions in carbon dioxide, sulfur dioxide, and nitrogen.

Keynote Address



Andre Fuetsch

President, AT&T Labs and Chief Technology Officer

Andre oversees the global technology direction for AT&T. This includes network planning, the company's innovation roadmap, AT&T Labs, AT&T Foundry, and the intellectual property organization. His responsibilities include spearheading the design of the company's next-generation 5G wireless infrastructure and software-defined networking (SDN) initiative.

He's also heavily involved in AT&T's push into open source software and other open standards, and engagement and collaboration with the broader developer community.

Since joining AT&T in 1995, Andre has supported and led several organizations responsible for software, systems and network architecture, planning and engineering, where he holds six patents in the field of network traffic optimization and database design.

Panel Discussion



Moderator

Kiran Stacey

Washington Correspondent, Financial Times

Kiran Stacey is the Washington Correspondent for the Financial Times, covering business and politics here in DC. Kiran has been with the FT for ten years, during which time he has covered the financial crisis, British politics, and energy policy.

Before moving to Washington, he spent two years at the FT's Delhi bureau as its South Asia correspondent.



Maria Spiropulu

Shang-Yi Ch'en Professor of Physics, Caltech

Maria Spiropulu is a world-renowned experimental particle physics researcher and a notable mentor of many graduate and undergraduate students.

Maria worked for 10 years at the Tevatron's collider experiments at Fermilab in Chicago and 13 years at the CERN's Large Hadron Collider with leading roles on detector R&D and operations and in the searches for new physics including the discovery of the Higgs boson. She is known for developing the "double blind" data analysis method for the first time in searches for supersymmetry at the Tevatron and inventing the novel "razor" framework for discovery and characterization of new physics.

In 2000, Spiropulu received her PhD from Harvard and was an Enrico Fermi Fellow at the University of Chicago until 2003. She moved to CERN in 2004 as a research staff physicist at the Physics Division and was promoted to a senior physicist position at CERN in 2008. She was appointed a Professor of Physics at Caltech in 2009. She is the founder of the Physics of the Universe Summit (POTUS), a meeting held under Chatham House Rules that explores challenges in emerging and cross-cutting areas of science & technology.

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Maria is also the founder of the Alliance for Quantum Technologies (AQT), a novel consortium of academic and research institutions, including national laboratories, and industry targeting to accelerate areas in quantum information science and technology through the Intelligent Quantum Networks & Technologies (INQNET) program of work.



Jake Taylor

*Assistant Director for Quantum Information Science,
White House Office of Science and Technology Policy*

Jake Taylor is the Assistant Director for Quantum Information Science at OSTP. When not on detail, he is also the co-Director and co-Founder of the Joint Center for Quantum Information and Computer Science (QIICS), a Fellow of the Joint Quantum Institute (JQI), and a physicist at the National Institute of Standards and Technology (NIST).

Fascinated with astrophysics while an undergraduate at Harvard, Taylor began his research career examining rarified gases and stellar clusters. A one-year position at the University of Tokyo as a Luce Scholar introduced him to special-purpose computing, and in graduate school he returned to join Misha Lukin's effort to advance quantum information science. In 2006, he moved to MIT as a Pappalardo Fellow, before starting his research group at NIST, and joining the JQI, in 2009. Four years ago, he co-founded QIICS — a joint governmental-academic effort — with University of Maryland distinguished university professor Dianne O'Leary, to connect computer scientists and physicists working on the fundamental challenge of realizing and understanding quantum coherent devices.

A Fellow of the American Physical Society, Taylor is also the recipient of the Department of Commerce Silver Medal, the IUPAP C15 Young Scientist Award, the Samuel J. Heyman Service to America Medal: Call to Service, the Presidential Early Career Award for Science and Engineering, and the Newcomb Cleveland prize of the AAAS. He has published more than 100 scientific papers, several book chapters, and holds five patents in quantum technologies.



Soren Telfer

Director, AT&T Palo Alto Foundry

Soren Telfer is the Director of the AT&T Palo Alto Foundry in Palo Alto, CA. He is the hands-on technical leader for strategic technology, R&D, and innovation. He has a track record of building and sustaining talented teams that deliver extraordinary business outcomes. Additionally, he has a deep technical expertise in distributed computing, networking, machine learning, and physics.