

Compete Connect

April 7, 2023 Edition

From the CEO's Desk



Deborah L. Wince-Smith
President and CEO
Council on Competitiveness

March came in like a lion for the Council on Competitiveness – and while we have entered April, the pace of activity for the Council shows no sign of tempering.

Punctuating the month and setting the agenda for the year, we co-hosted on March 27th and 28th with University of California, Davis Chancellor Gary May the [National Commission on Innovation and Competitiveness Frontiers Phase 2 Launch Summit](#).

This summit has set the stage for the work of our flagship initiative over the coming year, with the launch of a new set of policy-generating working groups to frame the next generation of recommendations to amplify U.S. innovation capacity and capability tenfold.

This imperative is more timely than ever as global competition mounts. My [most recent Forbes.com article](#) makes the case for Washington, DC to wake up and take action – on top of already significant policy developments over the past year. And the innovation imperative was clearly highlighted this past month by the Office of the Director of National Intelligence and in its [Annual Threat Assessment - a must-read for our community](#).

As we move into the second quarter of 2023, I urge all in the Council community to join in our many efforts to bolster U.S. competitiveness. And if you'd like to learn more about how to join and participate in the work of our [National Commission](#), please reach out to me and our EVP Chad Evans.

**“Washington Must Wake Up to the Innovation Imperative” – Deborah Wince-Smith
Makes the Case in Washington, DC and across the Nation**

In her [latest Forbes.com article](#), Council President and CEO Deborah Wince-Smith clearly defines the urgent need for an all-of-nation strategy to out-compete China and remain a global technology and innovation leader.

The article builds on Wince-Smith's [end-of-February testimony](#) before the House Science, Space, and Technology Committee, in which she stressed four critical recommendations from the National Commission's report, [Competing in the Next Economy](#):

1. Establish a National Competitiveness and Innovation Council in the Executive Office of the President
 2. Expand and fund place-based innovation to increase the U.S. innovation footprint
 3. Develop and deploy disruptive innovations at speed and scale
 4. Embrace a new technology statecraft and step up to the global leadership role in technology and innovation
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National Commission on Innovation and Competitiveness Frontiers - Phase 2 Launch Summit in Davis, CA

The Council kicked off on March 27th and 28th the next important phase of its National Commission with a [launch summit](#) at the University of California, Davis.

The purpose of the Summit – which included 100+ leaders from across the nation, representing the Council's Board, Executive Committee, National Commissioners and many other innovation stakeholders – was to take stock of the Commission's successes to date, while also starting a new effort to develop the Commission's second major "innovation call to action" that will come out from a progressive dialogue series, in at least four working groups, over the Summer and Fall of 2023.

The Summit – with a summary report coming soon – featured many of the Council's leaders in a range of plenary conversations, as well as two keynotes:

- **The Hon. Jed Kolko, Under Secretary of Commerce of Economic Affairs at the U.S. Department of Commerce**, spoke about the need for a new era of place-based investments to engage all regions across the country in the nation's innovation economy.
- **Professor Paul Monks, Chief Scientific Advisor at the United Kingdom Department of Energy Security and Net Zero**, shared the U.K.'s multifaceted plan to reach net-zero carbon emissions by 2050, as well as the U.K.'s new innovation plan.

Deborah Wince-Smith and Under Secretary Kolko also joined Chancellor May in a special edition of his popular podcast [Face to Face with Chancellor May](#) (check out UC Davis' coverage of the special episode [here](#).) The UC Davis office of strategic communications also released this [summary article of the Summit](#).

Summit Snapshots - the Council's Innovation Community in Action



The Honorable Deborah L. Wince-Smith, President & CEO, Council on Competitiveness;
Dr. Kim Wilcox, Chancellor, University of California, Riverside;
Dr. Gary May, Chancellor, University of California, Davis



Mr. Chad Evans, Executive Vice President, Council on Competitiveness;
Ms. Elisa Stephens, President, Academy of Arts University;
Mrs. Jaclyn Shaw, Interim Vice President for Research, Economic Development and Knowledge Enterprise, University of Texas at San Antonio;
Dr. Steven Ashby, Director, Pacific Northwest National Laboratory;
The Honorable Deborah L. Wince-Smith, President & CEO, Council on Competitiveness



The Honorable Paul Monks, Chief Scientific Advisor, Department for Energy Security and Net Zero



The Honorable Jed Kolko, Under Secretary of Commerce for Economic Affairs, U.S. Department of Commerce;
Mr. Chad Evans, Executive Vice President, Council on Competitiveness



The Honorable Jed Kolko, Under Secretary of Commerce for Economic Affairs, U.S. Department of Commerce;
The Honorable Deborah L. Wince-Smith, President & CEO, Council on Competitiveness;
Dr. Gary May, Chancellor, University of California, Davis



Dr. Ed Seidel, President, University of Wyoming;
Dr. David Greene, President, Colby College;
Dr. Suresh Garimella, President, University of Vermont;
Dr. Shashank Priya, Vice President for Research, University of Minnesota



Mr. Josh Parker, Chairman and CEO, Ancora L&G;
Dr. Ed Seidel, President, University of Wyoming;
Dr. David Greene, President, Colby College



Dr. Cindy Powell, Chief Science & Technology Officer, Energy and Environment, Pacific Northwest National Laboratory;
The Honorable Paul Monks, Chief Scientific Advisor, Department for Energy Security and Net Zero;
Dr. Helene Dillard, Dean, College of Agriculture and Environmental Science, University of California, Davis;
Mr. Cooper Rinzler, Senior Partner, Breakthrough Energy Ventures;
Dr. Todd Combs, Associate Director of Energy and Environment, Idaho National Laboratory



Dr. Albert Pisano, Dean and Walter J. Zable Distinguished Professor, Jacobs School of Engineering, University of California, San Diego;
Dr. Joseph Pancrazio, Vice President of Research and Innovation, University of Texas at Dallas;
Dr. Sally C. Morton, Executive Vice President, Knowledge Enterprise, Arizona State University;
Dr. Andre Marshall, Vice President of Research, Innovation, Economic Impact, George Mason University;
Dr. Valerie Browning, Vice President for Research and Technology, Corporate Technology Office, Lockheed Martin;
Dr. Thomas Mason, Laboratory Director, Los Alamos National Laboratory



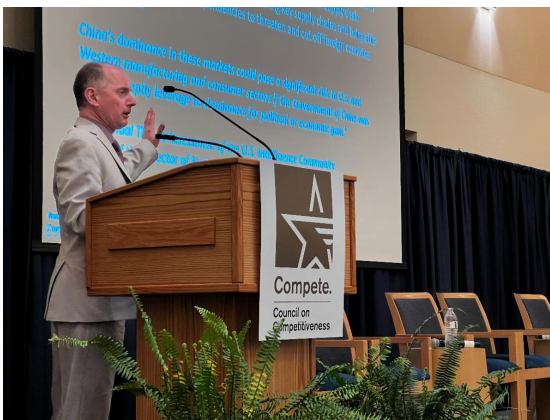
Mr. Tom Mildenhall, Global Head of Technology Partnership Development, Bank of America;
Dr. Tommy Gardner, Chief Technology Officer, HP Federal, HP Inc.;
The Honorable Patricia Falcone, Deputy Director for Science and Technology, Lawrence Livermore National Laboratory;
Dr. Padma Raghavan, Vice Provost for Research and Innovation, Vanderbilt University;
Ms. Mary Ellen Wiederwohl, President and CEO, Accelerator for America;
Chad Evans, Executive Vice President, Council on Competitiveness



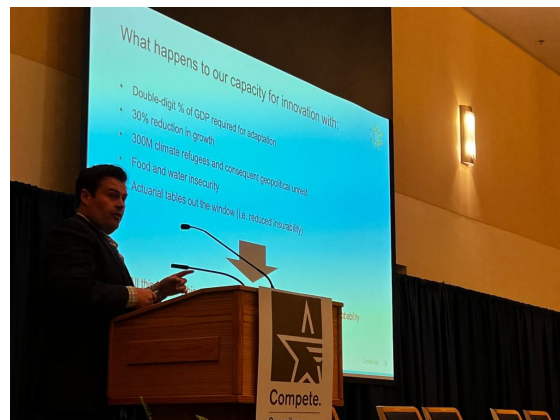
Ms. Van Ton-Quinlivan, CEO, Futuro Health;
Dr. Elizabeth Lobo, Provost, Southern Methodist University;
Dr. Robert Johnson, President, Western New England University;
Maj. Gen. Ed Bolton, Senior Advisor, Diversity, Equity, and Inclusion, The Aerospace Corporation



The Hon. Sandy Baruah, President and CEO, Detroit Regional Chamber;
Ms. Joan Gabel, President, University of Minnesota, and Vice Chair for Academia, Council on Competitiveness; **The Honorable Deborah Wince-Smith**, President and CEO, Council on Competitiveness;
Dr. Tomás Díaz de la Rubia, Vice President for Research and Partnerships, The University of Oklahoma;
Mr. Andrew Thompson, Managing Director and Co-Founder, Spring Ridge Ventures;
Dr. Jose Marie Griffiths, President, Dakota State University



Dr. Thomas Campbell, Co-Director LEAP Manufacturing, and Senior Fellow, Council on Competitiveness



Mr. Cooper Rinzler, Senior Partner, Breakthrough Energy Ventures



Mr. Roy Mathew,
Principal, National Practice Leader for Higher Education,
Deloitte US

Council on Competitiveness to Co-Host 25th Anniversary of the Good Friday/Belfast Agreement – Led by Queen’s University Belfast and Featuring Former President William Clinton and Secretary of State Hillary Clinton

The Council on Competitiveness will co-host with Queen’s University Belfast on April 16th-19th, the 25th anniversary of the Good Friday/Belfast agreement. The event in April will reflect on the achievements, legacies, and implications of the 1998 agreement – with the Council leading the major session on the 19th “looking forward” to the future productivity and inclusive prosperity in Northern Ireland and Ireland. The highest-level leaders involved in the Agreement – and in the ensuing quarter century of progress – will take active parts in the 3-day event.

Council President and CEO Deborah Wince-Smith will chair the major plenary panel on the 19th, engaging in a forward-looking conversation with: Council Academic Vice-Chair and National Commissioner Joan Gabel (President, University of Minnesota); National Commissioner Dr. Steven Ashby (Director, Pacific Northwest National Laboratory); Council Member and National Commissioner Joshua Parker (CEO, Ancora L&G); and Sarah Friar (CEO, Nextdoor.)

Find out more [here](#).



The TLSI Kicks Off 2023 with Two New Co-Chairs

After his distinguished service as co-chair of the Technology Leadership and Strategy Initiative – particularly during the outset of the COVID-19 pandemic – Deere Chief Technology Officer Dr. Jahmy Hindman is passing the baton. The Honorable Patricia Falcone, Deputy Director of Science and Technology, Lawrence Livermore National Laboratory, and Dr. Sally Morton, Executive Vice President, Knowledge Enterprise, Arizona State University, will join current chair Dr. Steven Walker, Vice President and CTO, Lockheed Martin.

The three co-chairs represent an updated governance structure for the TLSI – and they are engaged in setting a new agenda for the Council’s longstanding group of tech and innovation leaders across industry, academia, and the national laboratories. In addition, the three will move the TLSI outside of Washington, DC in 2023 and 2024 – with a Summer Dialogue at Lockheed Martin’s Advanced Technology Center in Palo Alto, June



The Honorable Patricia Falcone
Deputy Director for Science and
Technology
Lawrence Livermore National Laboratory



Dr. Sally C. Morton
Executive Vice President
Knowledge Enterprise
Arizona State University

New Co-Chairs – and a Senior Advisor – Add Expertise and New Ideas to the Advanced Computing Roundtable

Two new co-chairs are joining the current leadership team guiding the work of the Advanced Computing Roundtable (ACR).

We are pleased to welcome Lizy Paul, who leads 5G.MIL Programs at Lockheed Martin. Lizy has over 25 years of experience in the Aerospace & Defense and the Wireless Cellular industry.

And joining her as a new co-chair will be Rob Neely, Program Coordinator for Computing Environments at Lawrence Livermore National Laboratory. Rob has almost three decades of experience in High Performance Computing and spent a year with the Council earlier in his career helping to launch the current version of the ACR.

Additionally, we are excited to welcome Candace (Candy) Culhane, Program/Project Director with Los Alamos National Laboratory, as a Senior Advisor to the Council. Candy will be dedicating time to the ACR, as well as other programs, including the National Commission and the Technology Leadership and Strategy initiative. In her current role, she represents the Laboratory on multiple conference committees, and was named a co-lead of the IEEE Quantum Initiative. She works closely with LANL quantum information



Lizy Paul
Lockheed Martin



Rob Neely
Program Coordinator for Computing
Environments
Lawrence Livermore National Laboratory

science researchers and develops relationships with potential partners in the quickly evolving quantum information science community. She was a co-founder of the highly successful IEEE Quantum Computing and Engineering conference and recently served as General Chair for SC22, the International Conference for High Performance Computing, Networking, Storage and Analysis.



Candace Culhane
Program/Project Director
Los Alamos National Laboratory

Over the coming weeks, Lizy, Rob, and Candy will be working with the Council leadership and current ACR co-chairs – Tommy Gardner, Michael McQuade, and Rick Arthur – to rebrand and refocus the group’s work around a broad range of transformations and opportunities facing the computing community.

Council President and CEO, the National Science Foundation Director, and the President of the Japan Science and Technology Agency Focus AAAS Leaders on the Future of U.S.-Japan Innovation Opportunities and Priorities

Council President and CEO Deborah Wince-Smith joined a distinguished panel – alongside JST President Dr. Kazuhito Hashimoto and NSF Director Dr. Sethuraman Panchanathan – at the 2023 annual meeting of the American Association for the Advancement of Science (AAAS) to frame a proactive and positive bilateral engagement model between the United States and Japan to tackle a range of innovation, security, sustainability and economic challenges facing the world. Read more [here](#).



Council President and CEO Deborah Wince-Smith and EVP Chad Evans participated in a set of strategic meetings across the United Kingdom to advance efforts at building peer-to-peer, mutually supportive innovation partnerships aligned with Council efforts like the National Commission, TLSI, and the ACR.

In addition to participating in an inaugural meeting of the international advisory committee for Brazil's National Confederation of Industry – hosted by the Dean of the Oxford University Saïd Business School and including the participation of Brazil's new Minister of Science, Technology, and Innovation, Luciana Santos – Wince-Smith and Evans engaged in meetings across London with the leadership of: Northeastern University's London campus, Aston University, the Chief Scientific Advisor for the new Ministry of Energy Security and Net Zero, the new Director of ARIA (the U.K.'s new innovation agency modeled after DARPA), et al.



People Of Science: An Inclusive Analysis Of The U.S. STEM Workforce And Its Economic Impact

According to a [new analysis of U.S. Bureau of Labor Statistics data](#) released in early March by [Science is US](#), currently co-chaired by Council EVP Chad Evans, over 67 million workers in the United States — 34% of the nation's workforce — are STEM professionals. Further, the analysis found that 55% of those STEM workers do not have a bachelor's degree. Not only do STEM occupations provide fulfilling, well-paid jobs regardless of a person's educational attainment, STEM drives an outsized share of the U.S. economy.

Evans notes, "This analysis modernizes the mental model on how we think about STEM, shining a light on every American's deep connections to science, tech, and innovation. Our work reveals another staggering point: direct STEM economic activity punches well above its weight, accounting for nearly 41% - more than \$9 trillion - of U.S. GDP in 2021."

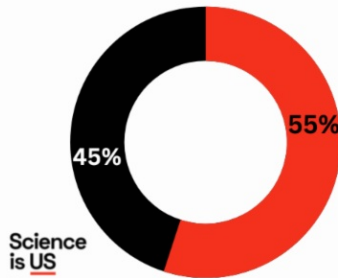
Read more [here](#).

STEM and the U.S. economy

Science, engineering, math, medicine and technology directly account for

34% of U.S. Jobs

40% of U.S. GDP



The majority of U.S. STEM Professionals do not hold a Bachelor's Degree

- STEM professionals with less than a bachelor's degree
- STEM professionals with a bachelor's degree or higher

Protecting American Computing Leadership: A Call for Investment and Action

American innovation in advanced computing has long been a driving force behind groundbreaking discoveries and technological advancements, spanning from weather and climate simulations to drug discovery and protein folding simulations. Since the dawn of computing, the United States has led the way, staying ahead of international rivals and offering a significant competitive edge to domestic businesses.

Council EVP Chad Evans, Dr. Neill Thompson (MIT) and Daniel Armburst (Silicon Catalyst) make the case in a new article in [Georgetown Public Policy Review](#) for large-scale, sustained, and coordinated investments in research, development, and infrastructure that are crucial to maintaining our competitive advantage.

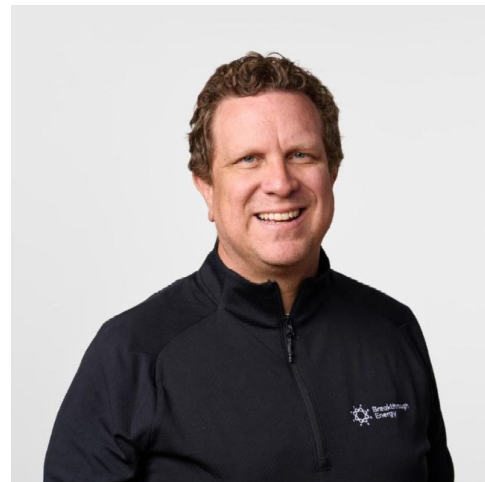
Read the full article [here](#).

Member News

New National Commission Member Breakthrough Energy Named a “Top 10 Most Innovative Company”

The massive scale of the climate crisis has sparked a large surge of innovation. Thousands of startups are working on new solutions. [More than \\$70 billion in venture capital went to climate tech companies in 2022](#), a record total.

Fast Company has recognized the Council's newest National Commissioner — Breakthrough Energy, represented by former Assistant Secretary of Energy David Danielson — as one of the world's most active climate tech venture funds, having raised \$2 billion to date, along with policy advocacy and



philanthropic programs. In 2022, its policy team played a key role in advocating for the historic climate legislation that was the centerpiece of what became known as the Inflation Reduction Act, as well as the CHIPS and Science Act.

Read more [here](#).

The Honorable David Danielson

Managing Director
Breakthrough Energy Ventures

National Commissioner and Western New England President Robert Johnson Named One Of Boston's Most Influential Men Of Color

More than 300 business leaders, entrepreneurs, and professionals gathered to celebrate Get Konnected!'s 15th Anniversary by unveiling a historic first-time list of Boston's Most Influential Men of Color.

National Commissioner and Western New England University's President Robert E. Johnson was amongst the honorees for this year.

"I am pleased to be included in Get Konnected!'s influential list of changemakers for 2023," said Dr. Johnson. "To be recognized among prominent men of color who are leaders and innovators of meaningful progress in their respective fields is an honor. I am proud to represent Western New England University, our students, faculty, staff, and alumni in accepting this award."



Robert E. Johnson
President
Western New England University

Read more [here](#).

Morgan State President and National Commissioner David Wilson Visits Ghana with U.S. Vice President Kamala Harris

National Commissioner and President of Morgan State University Dr. David Wilson joined United States Vice President Kamala Harris in Ghana. Her first trip to Africa since entering office in 2021, the Vice President's delegation focused on strengthening partnerships and increasing investments to facilitate economic growth and opportunities, the economic empowerment of women, climate resilience, and the digital economy.

Read more [here](#).



National Commissioner and University of Wyoming President will co-host the 2023 National Lab Day

Council member and National Commissioner, President Ed Seidel, and his team at the University of Wyoming will co-host the National Lab Day in conjunction with the U.S. Department of Energy (DOE). On April 12 & 13, 2023, head to Laramie to learn about and explore opportunities for partnerships with DOE national laboratories. Learn more [here](#).

Deloitte Launches New “Infrastructure for Good” Initiative

Deloitte has launched a new collaboration with Duke University and *The Economist* - the “Impact on the Infrastructure for Good Initiative.” The initiative includes an “Infrastructure for Good Barometer” that compares the infrastructure ecosystem in 30 countries with a focus on: planning, well-regulated systems, and sustainable and responsible financing.

Read more [here](#).

NEW TO THE COMMUNITY

The Council is pleased to announce and welcome new leaders:



Mung Chiang, Ph.D.
President
Purdue University
General Membership



Dr. Rebecca Cunningham
Vice President for Research
University of Michigan
Technology Leadership Strategy Initiative
(TLSI)

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