

# Compete Connect

June 2021

## From the President's Desk



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

The innovation wave of the last half-century - of which the United States has been a major beneficiary - has resulted in large part from the power of the semiconductor. However, as the Council has documented in several initiatives over the past decade, the United States is beginning to feel the effects of a slow-down in Moore's Law - and intensifying global competition for the next generation of advanced microelectronics that will fuel innovation and competitiveness across every industry sector. The passage of the CHIPS Act and the recent emergency appropriation of \$52 billion in the Senate-passed U.S. Innovation and Competition Act highlight renewed focus on the need for U.S. leadership.

The Council's National Commission on Innovation and Competitiveness Frontiers will continue to amplify the urgency of this issue and leverage our network to make the case to policymakers that quick and significant action is needed.

## News

The chip shortage in the U.S. is threatening our critical American manufacturing – 169 industries are now affected. Our manufacturing leadership is eroding and the U.S. has to act fast to secure our independence and competitive leadership over aggressive global players like China.

In her latest Forbes.com article, Deborah Wince-Smith explains what is keeping the U.S. from leadership in this field and what is needed to solve the microchip manufacturing challenge. Read more [here](#).

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### The National Commission on Innovation and Competitiveness Frontiers

The Council, under the auspices of the National Commission on Innovation and

Competitiveness Frontiers, launched a new webinar series, “Competing in the Next Economy,” in partnership with Lockheed Martin. The second discussion focused attention “Beyond Digital Manufacturing” - and understanding the imperative of the total transformation of the U.S. manufacturing enterprise.

Read the event summary - and watch the webinar - [here](#).

The June webinar featured leaders from Lockheed Martin, Deere & Company, Oak Ridge National Laboratory, and Purdue University.



To find out more, email EVP [Chad Evans](#).

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### Technology Leadership & Strategy Initiative

The June TLSI: Competitiveness Watch webinar, chaired by Deere & Company CTO Jahmy Hindman, featured Kenn Cukier, senior editor of *The Economist* and its weekly technology podcast “[Babbage](#)” and Viktor Mayer-Schonberger, professor at the University of Oxford. The two speakers shared key findings from their latest book [Framers](#) - focusing on unconventional thinking around how humans make decisions in an age of artificial intelligence and massive economic and social transformations.



**Kenn Cukier,**  
Senior Editor of *The Economist*



**Viktor Mayer-Schonberger,**  
Professor, University of Oxford

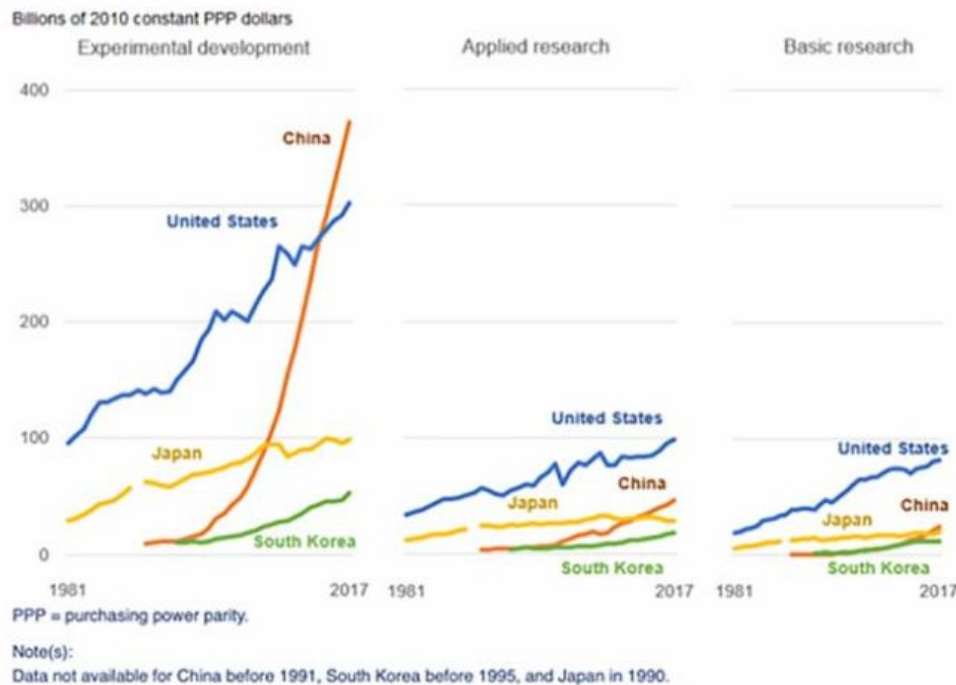
To find out more, email EVP [Chad Evans](#).

### Council Insight

**China’s rise and ambitions have fundamentally changed the technological, national security, economic and geopolitical landscape.** China seeks to supplant the United States as the world’s technological, economic, military, and geopolitical leader. The United States has faced formidable strategic competitors in the past. During the Cold War, the Soviet Union sought military supremacy but could not secure global economic and market leadership. During the 1980s, in the competition between the United States and “Japan, Inc.,” Japan sought commercial market dominance, but not military superiority.

China seeks both - and a key tool in its toolkit is the massive R&D investments underway, especially those in experimental development. This form of investment is critical because it is the bridge from basic and applied research to innovation and value creation in the marketplace.

## China Leads the World in Experimental Development Spending



Source: OECD Research and Development Statistics, Gross domestic expenditure on R&D by sector of performance and source of funds

## Member Spotlight

### Electrolux North America's President and CEO Nolan Pike joins the Council on Competitiveness as a new member and commissioner



**Nolan Pike,**  
President and CEO, Electrolux  
North America

The Council on Competitiveness is pleased to welcome Nolan Pike, President and CEO, Electrolux North America, as a new member and a commissioner on the Council's National Commission on Innovation and Competitiveness Frontiers.

Council President & CEO Deborah Wince-Smith noted, "Nolan will bring a wealth of experience and insight to the Council and to our continuing work to enhance U.S. manufacturing driven by innovation, resilience and sustainability."

Read the full release on our [website](#).

### Council Member Oak Ridge National Laboratory announces a new accelerator in partnership with Techstars, Tennessee Valley Authority, and the University of Tennessee

The "Future Accelerator", based in Oak Ridge-Knoxville, will support and advance world-class startups on emerging technologies across various sectors, including artificial intelligence, advanced manufacturing, quantum information science, 5G/advanced wireless technology, biotechnology, and clean energy technology.



**Thomas Zacharia,**  
Director of Oak Ridge National  
Laboratory

“Research and technologies from ORNL and from companies that have grown up here have made a difference in lives around the world,” said Thomas Zacharia, director of Oak Ridge National Laboratory and Co-Chair of the Council’s National Commission on Innovation and Competitiveness Frontiers. “In the next three years, the Techstars accelerator will attract high-potential companies in fields that will define the economy in the generations to come. This is a unique opportunity to share our region’s great strengths with rising entrepreneurs.”

Read more [here](#).

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**Tommy Gardner, Chief Technology Officer at HP Federal received the [Chief Officer Award for Chief Technology Officer – Public](#)**

The annual award recognized the most impactful and innovative C-suite executives in government and industry. We congratulate him for the recognition of his work at HP Federal throughout 2020 to supply government agencies and federal customers with secure, enterprise-level products and his continuous commitment to HP’s diversity and inclusion efforts.

Mr. Gardner is a member of the Technology Leadership & Strategy Initiative, Co-Chair of the Advanced Computing Roundtable and a member of the National Commission Working Group “Exploring the Future of Sustainable Production and Consumption.”



**Tommy Gardner,**  
Chief Technology Officer at HP  
Federal

Read more [here](#).

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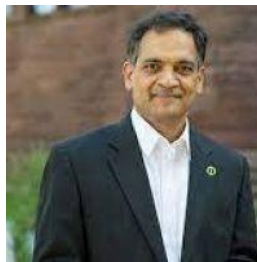
## New Council Members and Fellows in 2021

Since the beginning of the year, the Council has welcomed many new members, commissioners, and fellows and continues to grow the community.

### New Members



**Dr. Gregory Fenves,**  
President, Emory University



**Dr. Suresh V. Garimella,**  
President, University of  
Vermont



**Dr. Eric Kaler,**  
President, Case Western  
Reserve University





**Mr. Ronald Mason, Jr.,**  
President, University of the  
District of Columbia



**Dr. Om Nalamasu,**  
SVP and CTO, Applied  
Materials and  
President, Applied Ventures  
LLC



**Dr. James Peery,**  
Director, Sandia National  
Laboratories



**Mr. Nolan Pike,**  
President and CEO,  
Electrolux North America



**Mr. Michael T. Plehn,**  
Lt. Gen. U.S. Air Force,  
National Defense University



**Mr. Alex Rogers,**  
President, Qualcomm  
Technology Licensing



**Dr. Harry L. Williams,**  
President & CEO, Thurgood Marshall  
College Fund



**Dr. David Kwabena Wilson,**  
President, Morgan State University

**New Distinguished Fellows**



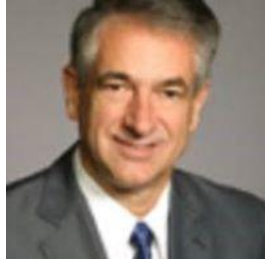
**The Honorable France  
Córdova,**  
Former Director, National  
Science Foundation



**The Honorable Paul Dabbar,**  
Former Under Secretary for  
Science, U.S. Department of  
Energy; Chairman & CEO,  
Bohr Quantum Technologies



**Admiral James G. Foggo,**  
**USN (ret.),**  
Former Commander U.S.  
Naval Forces Europe and  
Africa and Commander  
Allied Joint Force  
Command, Naples, Italy



**Mr. Klaus Hoehn,**  
Former Senior Advisor – Innovation & Technology to the Office of the Chairman, and Vice President, Advanced Technology & Engineering, Deere & Company



**The Honorable Michael Kratsios,**  
Former Acting Under Secretary of Defense for Research and Engineering, and Former Chief Technology Officer of the United States, and Managing Director, Scale AI



**Dr. Harris Pastides,**  
Interim President, University of South Carolina



**The Honorable Kimberly A. Reed,**  
Former Chairman of the Board of Directors, President, & CEO, Export-Import Bank of the United States

**New Senior Fellows**



**Mr. Toby Eduardo Redshaw,**  
CEO, Verus Advisory



**Dr. David B. Williams,**  
Monte Ahuja Endowed Dean’s Chair & Dean of the College of Engineering, The Ohio State University

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