Building on 2011 Accomplishments

The year ahead...

For the past 25 years, the Council on Competitiveness has framed the national and global conversation around one of the most critical issues of our time: how to create the conditions for sustainable productivity growth at the heart of national prosperity.

Founded in 1986, the Council is the United States’ only non-partisan, non-governmental organization whose mission is U.S. competitiveness. Our uncommon tripartite membership of corporate CEOs, university presidents, and labor leaders generates innovative public policy solutions, translates those ideas into action, and measures performance to ensure the future prosperity of all Americans.

Indeed, 2011 was a seminal year for the Council, but also a time of transition for the organization and for the country. Last Fall, we kicked off and celebrated our 25th Anniversary, highlighting the Council’s achievements and impact, and thanking the many leaders who helped shape and define the Council’s work.
This retrospective of our engagement and accomplishments during the past quarter century gives us a clear view of how we are positioned to give great force to the competitiveness agenda: our robust set of ongoing initiatives. While we are firmly addressing the immediate challenges to the U.S. economy, we are strongly rooted in the long-term competitiveness of the nation. Among our most distinctive features: we work closely with the nation’s top leaders, yet we are free from political agendas. Given this enormous value, and as the national debate centers on job creation and U.S. prosperity, the Council is poised to play a prominent role in shaping the nation’s economic future.

As the United States continued its slow climb out of recession during the past year, the Council released *Make: An American Manufacturing Movement* as the roadmap of recommendations to reinvigorate manufacturing capability and long-term economic growth. Our groundbreaking U.S. Manufacturing Competitiveness Initiative (USMCI), including a series of “Out of the Blue” dialogues across the country, informed *Make*, as did the Council’s three *Ignite* reports reflecting responses from three separate constituencies: industry leaders, university presidents and national lab directors, and heads of labor organizations. Our ongoing research and analysis continue to make their mark on the administration’s and lawmakers’ policy discussions and proposals about driving economic growth, spurring job generation, and boosting energy security. But the USMCI’s biggest imprint is outside the Capital Beltway, where state governors, and the leaders from business, universities and labor organizations work to implement *Make*’s recommendations.

Identifying and promoting technology-based innovation’s role in the nation’s long-term prosperity is one of the Council’s hallmarks. The Council’s Technology Leadership and Strategy Initiative (TLSI) makes the business case for innovation as a fundamental driver of national security and economic competitiveness, and in 2011, the TLSI was a dominant player. Entering its fourth year, the TLSI will release significant reports and findings as it lays the groundwork for its next phase of work.

At the same time, our High Performance Computing (HPC) initiative is way ahead of the curve as it pushes propagation of advanced modeling and simulation capability to provide competitive differentiation in the global marketplace and economic development across the United States—particularly through the National Digital Engineering Manufacturing Consortium (NDEMC).
A public-private partnership, the NDEMC moves sophisticated modeling and simulation capabilities down into the supply chains of large companies, where it would otherwise be unaffordable and out of reach. In just months since launching, we have realized success with this innovative program.

Emblematic of the Council’s dedication to the nation’s economic health and its prominence in advancing the competitiveness dialogue across the worlds of scholarship, policy and business, the Council held the inaugural America Competes Awards dinner in New York City in March 2012. Honoring Jeffrey R. Immelt, chairman and CEO of the General Electric Company, and Shirley Ann Jackson, president of Rensselaer Polytechnic Institute, the dinner drew a capacity crowd, and raised more than $1.2 million to support the Council’s mission and programs. The tribute was an unqualified success, and the Council is indebted to its honorees and many generous sponsors.

The year ahead presents exciting opportunities and challenges. Two major goals guide the Council’s current work:

- Moving Make: An American Manufacturing Movement through aggressive outreach and engagement with state and federal policymakers; holding cross-country regional dialogues; leveraging other Council initiatives; broadening media outreach; and, partnering with Council members in their respective home towns.

- As the outlook for the U.S. economy is again at the center of public concern and political debate—and as the line between developed and emerging economies blurs more each day—understanding and communicating the nature and meaning of “competitiveness” is more important than ever. The Council, along with its Economic Advisory (EAC)—several dozen of the nation’s top economists—will revitalize and reshape the Council’s flagship product, the Competitiveness Index, to promote a
common understanding of where America and Americans stand in the early 21st century. The EAC will set the stage for the next phase of the Council’s Index work. In many ways, America is better positioned than perhaps any other country to benefit from the forces reshaping the global economy, but key to doing this is to equip ourselves with the policies, skills and assets we need to prosper. The Council’s leadership, and its members and staff, are fully committed to its mission. The Council is uniquely defined as a disparate group of stakeholders unified by a practical approach toward promoting U.S. competitiveness. In this year of political transition, the Council is widely recognized for cutting through the politics and making sound recommendations to raise the standard of living for all Americans.

Samuel R. Allen
Chairman, Council on Competitiveness
Chairman and CEO, Deere & Company

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

“We focus on fundamentals. And from our solid base, we address our economy’s biggest challenges, seizing immediate opportunities and scanning ‘over the horizon issues’ that drive our nation’s long-term prosperity.”

Deborah L. Wince-Smith
President & CEO
Council on Competitiveness
The Council on Competitiveness hosted its inaugural America Competes Awards dinner at the Plaza Hotel’s Grand Ballroom in New York City on March 6, 2012.

The honorees were Jeffrey R. Immelt, General Electric Company chairman and CEO, recognized for corporate leadership, and Shirley Ann Jackson, Rensselaer Polytechnic Institute president, recognized for public service.
JPMorgan Chase’s CEO Jamie Dimon chaired the event and was joined by the firm’s vice chair, James Lee, Jr., who served as the event’s distinguished co-chair.

Both awardees put a premium on United States competitiveness by demonstrating extraordinary dedication to the nation’s economic health and advancing the public dialogue across the worlds of scholarship, policy, and business. As a tribute to their accomplishments, the dinner raised more than $1.22 million to benefit the Council’s ongoing work.

The Council established the America Competes Award for Corporate Leadership to recognize a leader with an exemplary life and a career-long commitment to work across the lines of business, academia, and politics for the betterment of America’s communities, the nation, and indeed, the world.

The Council established the America Competes Award for Public Service to recognize a leader making tireless efforts to improve the quality of life in America and abroad through public service and private sector outreach.

Both of these awards highlight commitment to excellence and the American spirit. More than 50 sponsors supported this milestone event, including Deere & Company, Lockheed Martin Corporation, JPMorgan Chase, General Electric Company, Deloitte, and Cisco. The Council plans to host a series of America Competes Awards ceremonies around the United States.
25th Anniversary Celebration Dinner & National Manufacturing Competitiveness Summit

2011 marked the 25th anniversary of the Council on Competitiveness. The 25th Anniversary Celebration Dinner and the National Manufacturing Competitiveness Summit were on December 7-8, 2011, in Washington, D.C.

To commemorate the historic occasion, the Council honored its tradition of excellence by convening some of America’s most influential leaders at an exclusive gala on December 7th. The Council held the dinner at the National Portrait Gallery’s Donald W. Reynolds Center for American Art and Portraiture to honor the Council’s founding chairman, John Young, who, as chairman and CEO of Hewlett-Packard, created and led the Council during its inception.

The National Manufacturing Competitiveness Summit followed on December 8th, harnessing the insight of the nation’s premier decision-makers to forge a new path toward sustained American prosperity.

The Summit, held at the Ronald Reagan Building and International Trade Center, included active participation from media partners. Among them: U.S. News and World Report, IndustryWeek, Popular Science, Scientific American, Manufacturing Executive, and CNBC. CNBC’s “Street Signs” was filmed on location, where host Brian Sullivan posed questions to c-suite speakers and guests.

At the Summit, the Council unveiled Make: An American Manufacturing Movement, a report identifying new opportunities to create a more robust industrial base.

For a quarter century, the Council has worked closely with the White House, Congress, and the private sector to raise the standard of living for every American. This approach embodies the spirit of American competitiveness, and this event showcased the Council’s dedication to that cause.

OPPOSITE PAGE
Top left: John A. Young, founder, Council on Competitiveness.
Top right: Samuel R. Allen, chairman, Council on Competitiveness, and chairman and CEO, Deere & Company.
Center left: Charles M. Vest, president, National Academy of Engineering.
Center right: Robert D. Hormats, under secretary for economic growth, energy, and the environment, U.S. Department of State; and Deborah L. Wince-Smith, president & CEO, Council on Competitiveness.
Bottom: Entertainment was provided by professional children’s performing company, The Silhouettes.
25th Anniversary Celebration Dinner
Council Celebrations

National Manufacturing Competitiveness Summit

Top: The Summit brought together leaders from business, academia and labor.

Center: Steven Knapp, president, George Washington University; Mark Peters, deputy director for programs, Argonne National Laboratory; and Craig Giffi, vice chairman, Deloitte.

Bottom left: Daniel B. Poneman, deputy secretary of energy, U.S. Department of Energy; and Thom Mason, director, Oak Ridge National Laboratory.

Top left: Anne Clough; Wayne Clough, secretary, The Smithsonian Institution; Deborah L. Wince-Smith, president & CEO, Council on Competitiveness; and G.P. “Bud” Peterson, president, Georgia Institute of Technology.

Top right: Terry Urbanek, international representative, United Association of Plumbers and Pipefitters; Deborah L. Wince-Smith, president & CEO, Council on Competitiveness; Gov. Pat Quinn, Illinois; and William Bohnett, president, Whitecap Investments LLC.

Center: Charles O. Holliday, Jr., chairman emeritus, Council on Competitiveness, and chairman, Bank of America; Keith D. Neubusch, chairman and CEO, Rockwell Automation, Inc.; and Nicholas T. Pinchuk, chairman and CEO, Snap-on Incorporated.

Bottom: Council on Competitiveness staff.
American manufacturing is moving forward.

The Council on Competitiveness is leading the way.

Join us at www.compete.org.

Top right: Patrick D. Gallagher, under secretary of commerce for standards and technology, and director, National Institute of Standards and Technology (NIST), U.S. Department of Commerce.

Center: Jack McDougle, senior vice president, Council on Competitiveness.

Bottom: Randi Weingarten, president, American Federation of Teachers, AFL-CIO; Keith E. Williams, president, CEO and trustee, Underwriters Laboratories Inc.; Alice Gast, president, Lehigh University; Fred Guterl, executive editor, “Scientific American;” and Rana Foroohar, assistant managing editor, “TIME Magazine.”
2011 in Review

The U.S. Manufacturing Competitiveness Initiative (USMCI) culminated in a National Manufacturing Summit in December, convening hundreds of business, university, labor, and government leaders for a day-long event. U.S. News and World Report, IndustryWeek, Popular Science, Scientific American, Manufacturing Executive, CNBC, and other national media outlets partnered with the Council to cover the event with onsite broadcasts, articles, and interviews with Council members and staff. Additionally, CNBC went live at the event, interviewing:

- Samuel R. Allen, chairman, Council on Competitiveness, and chairman and CEO, Deere & Company;
- Charles O. Holiday, Jr., chairman emeritus, Council on Competitiveness; chairman, Bank of America; and, chairman, Global Federation of Competitiveness Councils;
- David Vieau, president and CEO, A123 Systems;
- Nicholas T. Pinchuk, chairman and CEO, Snap-On Incorporated;
- Gene Huang, chairman, Council on Competitiveness Economic Advisory Committee; and chief economist and vice president, FedEx Corporation; and
- Deborah L. Wince-Smith, president & CEO, Council on Competitiveness.

"Manufacturing is a cornerstone of American independence, economic prosperity, and national security, and we must not give ground.”

Samuel R. Allen
Chairman, Council on Competitiveness, and Chairman and CEO, Deere & Company
2011 Dialogue Topics

**RICHLAND, WA**  
May 23-24, 2011  
“Out-of-the-Blue” Dialogue: Accelerating Life-Cycle Commercialization  
Hosted by Steven F. Ashby, Pacific Northwest National Laboratory

**BERKELEY, CA**  
May 25-26, 2011  
“Out-of-the-Blue” Dialogue: Strategic Resources and Advanced Materials  
Hosted by Paul A. Alivisatos, Lawrence Berkeley National Laboratory

**ALBUQUERQUE, NM**  
May 2-3, 2011  
Spring 2011 USMCI Executive Advisory Committee Meeting  
Hosted by Paul J. Hommert, Sandia National Laboratories

**DEARBORN, MI**  
June 13-14, 2011  
Summer 2011 USMCI Steering Committee Meeting  
Hosted by Alan R. Mulally, Ford

**MOLINE, IL**  
October 12-13, 2011  
Fall 2011 USMCI Steering Committee Meeting  
Hosted by Samuel R. Allen, Deere & Company

**CHATTANOOGA, TN**  
June 20-21, 2011  
“Out-of-the-Blue” Dialogue: Creating Secure and Resilient Infrastructures  
Hosted by Pierre L. Gauthier, Alstom
The December Summit also marked the official release of *Make: An American Manufacturing Movement*. This comprehensive national strategy addresses the most critical challenges facing American manufacturers. *Make* has already made its mark.

- President Barack Obama drew heavily on *Make* during the 2012 State of the Union;
- All members of Congress, governors, cabinet secretaries, and many other influential leaders across the country have received a copy of *Make*;
- Deborah L. Wince-Smith, Council president & CEO, presented *Make* at the annual Congressional Democratic Caucus Strategy meeting;
- Jack McDougle, Council senior vice president, was featured on “PBS NewsHour” discussing *Make*, along with former Clinton Administration Labor Secretary Robert Reich; and
- News outlets picked up the press release announcing *Make* more than 14,000 times.

2011 was an important year for the Council, laying the foundation to implement the policy solutions outlined in *Make*. In 2012, the USMCI will capitalize on these successes and work with leaders in the public and private sectors to reignite an American manufacturing movement.
2012 Outlook
Directed by Council senior vice president Jack McDouggle, the USMCI is pursuing an ambitious plan of action in 2012 to grow its steering committee, build on the success of the Make report, and disseminate its findings to policymakers at the federal, state, and local levels. In particular, the USMCI plan of work already includes the following:
• Council staff are working with Gov. Dave Heineman (NE), current chair of the National Governors Association (NGA), and Gov. Jack Markell (DE), current vice chair, to present and discuss Make at upcoming NGA policy meetings.
• The Council is preparing a series of manufacturing town hall meetings across the country with selected state leaders, among them: Gov. Rick Perry (TX), Gov. Bill Haslam (TN), Gov. Pat Quinn (IL), Gov. Deval Patrick (MA) and Sen. Robert P. Casey, Jr. (PA).

USMCI Chairman’s Dinner and Steering Committee Meeting

Above left: Larry Weber, founder and CEO, W2 Group; Cynthia McIntyre, senior vice president, Council on Competitiveness; and Beth Chappell, president and CEO, Detroit Economic Club at Ford’s Rouge Plant in Dearborn, MI.


At right: Samuel R. Allen, chairman, Council on Competitiveness, and chairman and CEO, Deere & Company; and Ray O. Johnson, senior vice president and chief technology officer, Lockheed Martin Corporation.
2012 Outlook

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Fellow speakers included Andrew N. Liveris, president, chairman and CEO, The Dow Chemical Company; W. James McNerney, Jr., chairman, president and CEO, The Boeing Company; Gov. John Hickenlooper (CO); and Sen. Rob Portman (OH).
The 2011 *Ignite* report series, an effort undertaken by the Council in partnership with Deloitte, was also instrumental in the development of *Make*. The three interview-driven reports in the *Ignite* series captured the input and perspectives of corporate CEOs, university presidents and national lab directors, and labor leaders—on the near-term steps needed to improve U.S. manufacturing competitiveness. The reports also addressed the long-term measures required to ensure America retains its position of global manufacturing leadership.

- The Council continues to reach out to presidential and Congressional campaigns to ensure the Council’s voice is heard during this pivotal election year.
- The Council is working to create opportunities for Council members to interact with Congressional leadership.
- The Council is establishing a National Manufacturing Coalition to expand its grassroots reach. The Coalition will include organizations like the Society for Manufacturing Engineers and The Minerals, Metals & Materials Society.
- The Council produced the 2012 Global New Energy Summit in Colorado Springs in April as a springboard for re-engaging the Energy, Security, Innovation and Sustainability (ESIS) Initiative and further incorporating the Council’s energy portfolio into the USMCI.
- The USMCI has continued its “Out-of-the-Blue” manufacturing dialogue series:
  - **Next Generation Supply Networks**: hosted by G. P. “Bud” Peterson, president, Georgia Institute of Technology, held in Atlanta February 28–29.
  - **Cyber Infrastructure and Security**: hosted by Eric D. Isaacs, director, Argonne National Laboratory, in Chicago, date TBD.
  - **Advanced Manufacturing Technologies and Processes**: hosted by Dennis Berkey, president, Worcester Polytechnic Institute, in Massachusetts, date TBD.
  - **Talent and Innovation**: hosted by John McGlade, chairman, president and CEO, Air Products and Chemicals, Inc.; and Alice P. Gast, president, Lehigh University, in Pennsylvania, date TBD.
  - **Accelerating and Innovating Workforce Development**: hosted by Nicholas Pinchuk, president & CEO, Snap-on Incorporated, in Kenosha, WI, date TBD.
- The USMCI Steering Committee recently welcomed the addition of Nicholas Pinchuk, president & CEO, Snap-on Incorporated; and Dennis Berkey, president, Worcester Polytechnic.
Paul Hommert, director of Sandia National Laboratories and president of Sandia Corporation, joined the Leadership Council as the National Laboratory Lead, succeeding the recently retired director of Lawrence Livermore National Laboratory, George Miller.

The USMCI team is working closely with Deloitte to produce the next iteration of the Global Manufacturing Competitiveness Index.

Finally, the USMCI Steering Committee anticipates meetings in the spring and fall, with working groups configured around the five major Make recommendations:

1. Innovation and Production Economy
2. Exports, Trade Deficit, Market Access and Mercantilism
3. Power and Potential of American Talent
4. Smart Innovation and Manufacturing
5. Next Generation Supply Networks and Advanced Logistics

2012 may be a seminal time for the nation’s manufacturing base. The pending elections and ensuing political debates will have a tremendous impact on America’s economic trajectory and its position as a global manufacturing leader. The Council looks forward to working with stakeholders throughout its network to truly make an American manufacturing movement.

“We have to work together, and we have to pull out all the stops to make the manufacturing industry successful.”

William P. Hite
General President
United Association of Plumbers and Pipefitters
Council Drives Next Generation Innovation Strategy for United States

*Technology Leadership and Strategy Initiative Charts Technology and Policy Roadmaps*

Entering its fourth year, the Technology Leadership and Strategy Initiative (TLSI) continues to make the business case for strategic, prioritized investments in the research, talent and infrastructure necessary for tech-based innovation in an era of endless frontiers but limited resources.

The TLSI convenes chief technology officers from America’s premier companies and their peers from top research universities and national laboratories. The initiative co-chairs are Klaus Hoehn, vice president of advanced technology and engineering, Deere & Company; Ray O. Johnson, senior vice president and chief technology officer, Lockheed Martin Corporation; and, Mark Little, senior vice president and chief technology officer, General Electric Company.

The TLSI strives to enable more productive American research partnerships and to preserve the nation’s technology leadership—which has been at the core of the nation’s productivity revival during the past 25 years. An invigorated innovation enterprise creates new jobs and firms, drives economic growth, and is essential to solving some of America’s greatest challenges in areas as diverse as health, energy and security.

2011 in Review

The TLSI held dialogues in July and October of 2011, supplemented by nearly two dozen virtual working group meetings. These TLSI working groups—focusing on accelerating innovation, improving the regulatory environment for innovation, developing the talent to innovate in the 21st century, and communicating the fundamentals of innovation—helped create a slate of recommendations for the Council on Competitiveness’ U.S. Manufacturing Competitiveness Initiative (USMCI) and its report *Make: An American Manufacturing Movement*.

In July, TLSI Dialogue 5 explored which technologies and challenges are most important to America’s future and considered how to improve the management, rules, and funding allocation of the federal research enterprise. Prior to the dialogue,

“The United States can succeed and prosper in the 21st century. Doing so will require a concerted effort of government, industry, and academia—all working together.”

Ray O. Johnson
Senior Vice President and Chief Technology Officer
Lockheed Martin Corporation
the Council issued an analysis of federal research funding through several prisms—by agency, character of work (basic, applied, development), budget function, and appropriations subcommittee.

Dialogue 5 featured three guests from the Department of Energy (DOE). Steven Koonin, then under secretary of science, spoke to the TLSI participants about the DOE’s Quadrennial Technology Review. Arun Majumdar, acting under secretary of energy and director of the Advanced Research Projects Agency–Energy (ARPA-E), updated the TLSI on ARPA-E’s progress since he addressed the TLSI in 2009. Dan Hitchcock, associate director for Advanced Scientific Computing Research, joined TLSI member and co-chair of the Council’s High Performance Computing (HPC) Initiative, Tomás Díaz de la Rubia—deputy director for science and technology at Lawrence Livermore National Laboratory—to discuss how the nation could leverage HPC’s modeling and simulation powers more effectively for competitiveness.

In October, The United States Naval Academy hosted TLSI Dialogue 6, which considered several technology policy developments, discussed implementation of the TLSI recommendations, and reviewed the research and technology priorities of the United States Navy and the United States Naval Academy. Rear Admiral Nevin Carr Jr., chief of naval research and director of test and evaluation and technology requirements, shared his concerns and plans to address STEM education in the United States. Andrew Phillips, academic dean and provost of the United States Naval Academy, explained the outlook, accomplishments and challenges of the Academy as it trains midshipman in science and engineering. Led by USNA midshipmen, Dialogue 6 participants took tours of the Academy’s facilities to learn about research. Rachel Goslins, executive director of President Barack Obama’s Committee on the Arts and Humanities, spoke about the linkage between an arts-infused education and greater student engagement and achievement—including in STEM fields.
Cyrus Wadia, assistant director for clean energy and materials R&D at the White House Office of Science and Technology Policy, reviewed the Materials Genome Initiative.

William Brinkman, director of the Department of Energy Office of Science, shared developments in HPC—including the outlook for exascale computing, the next step in the evolution of HPC.

During the course of three years, the TLSI has stimulated a robust debate on technology policy and built a powerful coalition of the nation’s top technology leaders to ignite action. The TLSI has generated several positive outcomes for U.S. technology leadership. It has:

- Identified several grand challenges and strategic technologies that would help solve them, providing the nation with an improved technology roadmap.
- Contributed directly or indirectly to administration and Congressional policy reform efforts in an array of areas, including intellectual property, export controls, basic research, community colleges, manufacturing, immigration, STEM education and high performance computing.
- The TLSI’s engagement with the Department of Energy played a direct role in the department’s effort to boost corporate collaboration with the national laboratories through the Agreements for Commercializing Technology initiative (ACT). Deputy Secretary of Energy Daniel B. Poneman launched ACT in a major keynote address during the Council’s 25th Anniversary celebration in December 2011.

By creating a community of top technologists, the TLSI continues to spur new relationships and collaborations between government, industry, academia and the national laboratories. Participants also carry insights from the TLSI Dialogues, virtual working groups and reports to other coalitions and advisory bodies of the nation’s leaders, broadening the initiative’s impact.
2012 Outlook

Directed by Council senior vice president Chad Evans and vice president Chris Mustain, the fourth year of the TLSI will maintain the twice-yearly progressive dialogue series and embark on a range of activities to follow up on the TLSI recommendations. Some TLSI follow up will be carried out in concert with other Council initiatives. The 2012 TLSI Dialogues will take place June 28 and October 22.

The Council, along with TLSI co-chair Ray O. Johnson, senior vice president and chief technology officer of Lockheed Martin Corporation, and National Academy of Engineering president Charles Vest (and former Council vice chair), will host the first-ever National Engineering Forum (NEF) in New York City on September 19, 2012. Envisioned as the “Davos of Engineering,” the NEF will spotlight the engineering discipline and the profession for senior leaders across America.

The National Engineering Forum will focus on:

Capacity
Are we training, retaining and developing the engineers necessary for the 21st century?

Capability
What are the grand challenges and opportunities that engineering—in concert with the rest of society—can solve?

Competitiveness
How can engineering leadership drive productivity and prosperity in the United States?
High Performance Computing Advisory Committee

Putting HPC into action through the National Digital Engineering and Manufacturing Consortium

2011 in Review
Under the umbrella of the Technology Leadership and Strategy Initiative, the Council on Competitiveness re-launched its High Performance Computing Advisory Committee (HPCAC)—led by TLSI members Robert Buhrman, senior vice provost for research at Cornell University; Tomás Díaz de la Rubia, deputy director for science and technology at Lawrence Livermore National Laboratory; and, Michael McQuade, senior vice president of science and technology at United Technologies Corporation—at Lawrence Livermore National Laboratory. The Council also hosted a second HPCAC meeting in Washington, D.C., on October 25, with robust discussion centered on the U.S. path to exascale computing, cyber security, access to leading-edge HPC systems (federal and beyond), and building market demand for and commercialization of federal open source codes.

As the pre-eminent forum for convening HPC expertise in the United States, the HPCAC spans the entire HPC ecosystem by including membership from industrial commercial users, hardware and software vendors, academia, national laboratories, HPC centers, and other R&D institutions.

The HPCAC recommends policy and implementation strategies to maintain American leadership in the adoption, use, and deployment of HPC hardware and application software. It also aims to accelerate adoption, and stimulate and facilitate wider usage of HPC across the private sector in order to propel long-term U.S. productivity, innovation, and competitiveness.

Goals of the HPCAC include:

• Developing and delivering the message of how HPC can act as a technological foundation for national competitiveness, innovation, and security;

• Providing high-level recommendations to policy makers on what and how public and private investments in HPC can have maximum impact on our common goal of maintaining U.S. leadership in science and engineering, workforce talent, and industrial productivity;

• Advocating for national policies that maximize the economic return on U.S. public investment in HPC and promote adoption and use of HPC technologies by the domestic private sector through publications, press releases, ongoing major Council initiatives, and the public forum;

• Lowering the barriers to adoption of HPC in industry by developing and promoting a national strategy, while recommending implementation that systematically identifies and addresses obstacles to wider penetration and utilization;

• Increasing access to HPC advanced modeling and simulation technologies and expertise, allowing firms of all sizes to quickly innovate, design, prototype, test and evaluate, and deploy or commercialize, reducing time to market and costs throughout every stage of the product life-cycle; and

• Supporting the research, development, and application of exascale and other advanced HPC technologies, both hardware and software, that will continue U.S. global leadership in the field.
The HPCAC will convene top HPC technology leaders from across multiple sectors to promote discussion, interaction and action. The goal is to retain U.S. global leadership in HPC and its applications, and leveraging government investments in HPC research and development to provide the public and private sectors with the competitive advantage to out-innovate the rest of the world.

In addition to the overarching goals of the HPCAC to elevate the national conversation around the advantages and capabilities inherent in HPC, the Council has been the driver of an innovative, first-ever, large-scale, public-private pilot project designed explicitly for greater adoption and use of HPC, known as the National Digital Engineering and Manufacturing Consortium (NDEMC).

The NDEMC is a $4.5 million partnership ($2 million from the U.S. government matched to $2.5 million from the private sector) between:

- The Council on Competitiveness;
- The U.S. government, including the Economic Development Administration of the U.S. Department of Commerce, the Department of Defense, the Department of Energy, NASA, the National Science Foundation, and the Small Business Administration;
- Original equipment manufacturers (OEMs), including Deere & Company, General Electric Company, Lockheed Martin Corporation, and Procter & Gamble;
- Universities, computing centers, and NGOs, including Purdue University, the National Center for Manufacturing Sciences, Inc., the National Center for Supercomputing Applications in Illinois, the Ohio Supercomputing Center; and
- The State of Ohio.
The Council coordinates the NDEMC to focus on: providing education, training, and access to computing resources for the small and medium-sized enterprise manufacturing workforce to develop modeling, simulation and analysis (MS&A) skills; shortening time-to-market for products; manufacturing improved products; and increasing quality while lowering costs. The OEMs will benefit from increased efficiency in collaborations with their suppliers, as well as from heightened confidence in their suppliers’ abilities to innovate rapidly.

The initial cohort of SMEs engaged in the NDEMC pilot in early November 2011 include:

• Adams Thermal Systems, sponsored by Deere & Company;
• Greenlight Optics, sponsored by Lockheed Martin Corporation;
• Jeco Plastic Products, sponsored by Purdue University;
• Plastipak Packaging Inc., sponsored by the Procter & Gamble Company;
• Pratt Industries, sponsored by the Procter & Gamble Company;
• Rosenboom Inc., sponsored by Deere & Company; and
• TPI Composites, sponsored by GE Energy.

2012 Outlook

Directed by Walter Kirchner, Council chief technologist, the HPCAC will continue to grow its invitation-only membership and activities through a variety of activities tightly coupled to the Council’s TLSI and USMCI. This includes biannual dialogues and workshops to understand and define the drivers and benefits of extreme computing-based modeling and simulation on U.S. competitiveness, and to advocate for greater access to national HPC assets for the private sector. It seeks to position U.S. industry to be early adopters in exploiting

“If we can bring doers, dreamers, and drivers together, we will have solutions to our problems.”

Klaus Hoehn
Vice President of Advanced Technology and Engineering
Deere & Company
HPC to business and national advantage, and to support and develop public-private partnerships that maximize use of U.S. HPC capabilities.

The HPCAC will convene two meetings in 2012. The first will be held in Washington, D.C., on June 27, 2012. The second meeting likely will take place in concert with the October 2012 TLSI dialogue.

The NDEMC, led by SCRA senior vice president and project manager Dennis Thompson and coordinated by Council senior vice president Cynthia McIntyre and chairman of the NDEMC executive board C. William Booher, Jr., will focus on two major deliverables in 2012.

First, the NDEMC will develop an easy access, web-based portal that includes:

- A single point of entry to access MS&A software and HPC;
- A searchable database of MS&A software;
- A secure business transaction capability (pay-by-use model);
- Access to unbiased advice and direction (university partners); and
- A database of MS&A consultants and their areas of expertise.

Second, the NDEMC will produce a wide range of case studies through the Midwest Pilot's individual SME projects, and document how to replicate its success throughout the U.S. manufacturing supply chain.

The Council also plans, in 2012, to apply for a grant to lead a Southeast Pilot.
In response to its 25th anniversary and the increasing complexity of economic analysis underpinning its research agenda, the Council on Competitiveness established the Economic Advisory Committee (EAC)—a forum of leading economists across industry, academia, labor, non-governmental organizations, and think tanks to develop the sophisticated modeling and research necessary to understand the fundamental competitiveness drivers in the 21st century.

Launched in 2011, the EAC, chaired by Gene Huang, chief economist and vice president at FedEx Corporation, has a set of clear missions going forward:

1. To re-define, re-shape and innovate the Council’s flagship publication, the Competitiveness Index;
2. To review and undertake additional economic analysis in support of the Council’s current slate of initiatives (e.g., Technology Leadership and Strategy Initiative; U.S. Manufacturing & Competitiveness Initiative) and mission; and
3. To incubate and launch new projects at the Council aimed at identifying and supporting future productivity drivers.

2011 in Review

The EAC held its inaugural dialogue in Washington, D.C., on July 18, 2011, to discuss the vision and goals for the committee, how to think about re-defining the Competitiveness Index, a slate of global economic challenges and opportunities facing the nation, and how to engage with current Council initiatives.
In a discussion led by Council senior vice president Chad Evans, Robert Rebelein of Vassar College, and Michael Mandel from the Progressive Policy Institute, participants explored the topic of innovating the *Competitiveness Index* in regard to substance, methodology and delivery.

Looking ahead, Huang, along with Robert Fry of DuPont, David Hale of David Hale Economics, and William Strauss from the Federal Reserve Bank of Chicago, led a discussion on future global economic challenges and identifying opportunities to boost U.S. productivity and prosperity.

**2012 Outlook**

The second year of the EAC is focusing on the development and execution of the next *Competitiveness Index*, which began with its second dialogue on April 19, 2012, and exploring new competitiveness drivers, such as imagination and creativity.
Global Innovation Initiatives

Building and optimizing innovation partnerships that drive productivity and prosperity in the United States

The Council on Competitiveness continued to deepen its relationship with one of the world’s fastest growing economies through its bi-national partnerships with the Brazilian Competitiveness Movement (MBC) and the Brazilian Agency for Industrial Development (ABDI).

During the past seven years, the Council, MBC, and ABDI have developed one of the world’s most ambitious, joint, public-private partnerships to elevate innovation capacity in both nations and across the hemisphere through the creation of the 1st U.S.-Brazil Innovation Summit in Brasilia in 2007 and the 2nd U.S.-Brazil Innovation Summit in Washington, D.C., in 2010, and a new-to-the-world set of 13 Innovation Learning Laboratories.
Following the 2010 2nd U.S.-Brazil Innovation Summit, the Council continued "innovating" the successful, co-creative U.S.-Brazil Innovation Learning Laboratories—moving out to engage key innovation stakeholders in the United States and Brazil.

In February 2011, Council member and president of Arizona State University, Michael Crow, hosted the 11th Innovation Learning Laboratory, focusing on the potential to turbocharge joint, entrepreneurial activities—including exploration of a concept to develop a “global co-incubator” with Brazil’s largest private university, Pontifical Catholic University of Rio Grande do Sul (PUC-RS).

In September, Council member and president of Duke University, Richard Brodhead, hosted the 12th Innovation Learning Laboratory. This Lab focused on the innovation challenges and opportunities around the health care enterprise, including translational research, innovative health care management, health informatics and the environment and human health—challenges important to leaders of the western hemisphere’s two largest countries, such as: Jorge Ávila, president of the Brazilian National Institute of Industrial Property; Erika Barbosa Camargo, deputy coordinator, Department of Industry and Innovation with the Brazilian Ministry of Health; Victoria Brady, vice president of technology for DuPont Latin America; Tom Beauregard, executive vice president of UnitedHealth Group; John Evans, vice president of business innovation for Lockheed Martin Corporation; and Mark Dente, chief medical informatics officer for GE Healthcare.

In November, Joaquim Clotet, rector of PUC-RS, hosted the 13th Innovation Learning Laboratory in Porto Alegre, Brazil. This Lab included participation from Ray O. Johnson, senior vice president and chief technology officer of Lockheed Martin Corporation; Klaus Hoehn, vice president of advanced technology and engineering for Deere & Company; Spiros Dimolitsas, senior vice president for research and chief technology officer, Georgetown University; and Adriana Machado, CEO of GE Brazil. This Lab focused on several important themes, including: how to meet the global demand for energy and water; entrepreneurship and scaling up startups as drivers for economic growth; challenges and opportunities in developing talent with a focus on engineering; and the nexus of health, hunger and happiness.
The Council remains committed to building on and expanding its bilateral engagement with Brazil as it enters the second decade of the 21st century.

Chad Evans, Council senior vice president, continues the Council’s efforts to bridge the public and private sector stakeholders seeking to optimize the innovation relationship between the Western Hemisphere’s two largest economies, co-chairing the U.S.-Brazil Joint Commission Meeting on Science and Technology “Innovation Working Group” with Thomas Peterson, assistant director for engineering at the National Science Foundation.

On April 9, 2012, the Council emphasized the critical linkage between innovation, productivity, prosperity and competitiveness by partnering with the Office of the President of Brazil and Itamaraty (the Brazilian Foreign Ministry) in the historic visit to the United States by President Dilma Rousseff.

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2011 in Review

The Council on Competitiveness continues to leverage its strong presence in the international community and to broaden its understanding of how key U.S. trading partners and markets address challenges to their own competitiveness. Through its role as the founding board member and secretariat of the Global Federation of Competitiveness Councils (GFCC), the Council maintains its clear connection to issues affecting national competitiveness in countries around the world, while deepening connections and forging new partnerships for its members.

On November 21-22, 2011, the GFCC co-hosted along with the 2011 Vice-Chairs, the Brazilian Agency for Industrial Development (ABDI) and the Brazilian Competitiveness Movement (MBC), the Competitiveness Forum and 2011 Annual Meeting in Porto Alegre, Brazil. These events brought together competitiveness councils from around the globe, c-suite leaders from U.S. and global private sectors, senior government officials from member countries, and other stakeholders to discuss competitiveness and related issues as a pan-global imperative.

The event presented several Council members with unique business networking opportunities with public and private sector representatives from more than 12 countries. At the Competitiveness Forum, the GFCC released the 2011 Global Competitiveness Principles, which reflect the GFCC’s united voice on recommendations every country should implement to enhance national competitiveness and increase the standard of living of all people.

The meeting also marked the inaugural release of Accelerating Growth: Best Practices in Competitiveness Strategy, a compendium of successful initiatives that have provoked substantive changes through which member countries have sharpened their competitive edge.

The broad GFCC membership network now includes competitiveness councils in 32 countries across the globe. The GFCC is composed of eight board members, seven general members and a network of more than 20 other national and regional organizations from regions and countries whose markets are of strategic importance to Council members.
2012 Outlook

At the 2011 GFCC Annual Meeting, members set out an ambitious agenda for the next year, which includes specific initiatives and strategic partnerships to advance understanding of the global economy. During this period, the organization will:

- Release the second edition of *Accelerating Growth: Best Practices in Competitiveness Strategy*;
- Announce the 2012 *Global Competitiveness Principles*, to be presented at the 2012 GFCC Meeting—set to be held in Dubai, United Arab Emirates in November;
- Issue a set of next-generation competitiveness metrics—including a GFCC branded scorecard to better enable countries to measure competitiveness;
- Completely restructure and replace the GFCC website to enhance its interactivity and usefulness to GFCC members and policymakers worldwide; and
- Broaden partnerships with multilateral organizations, including the STS Forum in Japan, the World Economic Forum, UNIDO, and the World Bank, among others.

The GFCC continues to bring together a unique international network, providing member councils with an opportunity to gain valuable insight into issues that affect change in global competitiveness policy. In recognition of the accelerating pace of competition in worldwide markets and the shifting global economic landscape, the Council views its membership and participation in the GFCC, as well as its contribution to the GFCC’s overall agenda, as critical for its members and an important component of the United States’ overall competitiveness portfolio.
Walter Kirchner is the chief technologist in residence at the Council on Competitiveness, where his primary focus is advising the Council on matters at the intersection of science and technology-based innovation and U.S. economic competitiveness. In addition, he is playing a leadership role in the Council’s High Performance Computing Advisory Board, which has the objective of convening expertise from across the entire HPC ecosystem—government and laboratories, academia, and industry—to recommend policies and implementation strategies to assure U.S. global leadership in HPC and its applications, particularly in regard to providing public and private sectors the competitive advantage to outcompute the rest of the world.

Deborah Koolbeck is the Council’s vice president leading outreach to the White House, federal agencies, Capitol Hill, and state and local governments, conveying Council issues to stakeholders and bringing their ideas to Council initiatives and programs. Koolbeck brings a rich mix of experience in science, education, and policy. In Congress, she served first as an Albert Einstein Distinguished Educator Fellow, working as a legislative assistant, then served on committee staff and as a legislative director for two members of Congress. Among many successes, she mobilized two reauthorizations signed into law during the 110th Congress.

Koolbeck helped redesign part of Chicago’s Museum of Science and Industry, and taught five different science courses at the famed Chicago Academy for the Arts. Koolbeck also taught and participated in various leadership activities at the University of Arizona’s Department of Physics. Her experience in science includes working as a guest scientist at Fermi National Accelerator Laboratory and on the ATLAS project at CERN, as well as working at other national laboratories.

Douglas Rohde joined the Council in 2011 as the director of communications. He has managed public relations for a Maryland law firm representing veterans with disability claims before the U.S. Department of Veterans Affairs, and he has directed international marketing for an Istanbul, Turkey-based educational consultancy. Rohde holds a bachelor’s degree in philosophy from Portland State University, a master’s degree in diplomacy from Norwich University, and a master’s degree in management from Harvard University.

Tom Trueblood is the database manager for the Council on Competitiveness. In this position, his primary focus is maintaining the accuracy of the Raiser’s Edge Database, training employees in the use of the database, and invoicing members.
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The Council’s mission is to set an action agenda to drive U.S. competitiveness, productivity and leadership in world markets to raise the standard of living of all Americans.

The Council on Competitiveness is the only group of corporate CEOs, university presidents and labor leaders committed to ensuring the future prosperity of all Americans and enhanced U.S. competitiveness in the global economy through the creation of highvalue economic activity in the United States.

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HOW WE OPERATE

The key to U.S. prosperity in a global economy is to develop the most innovative workforce, educational system and businesses that will maintain the United States’ position as the global economic leader.

The Council achieves its mission by:

• Identifying and understanding emerging challenges to competitiveness
• Generating new policy ideas and concepts to shape the competitiveness debate
• Forging public and private partnerships to drive consensus
• Galvanizing stakeholders to translate policy into action and change