Agenda

Energy & Manufacturing Competitiveness Partnership
Phase I Sector Study: Advanced Materials

April 12, 2016

Hosted by:  
Dr. Laurie Leshin
President
Worcester Polytechnic Institute

Dr. Aziz Asphahani
Chief Executive Officer
QuesTek Innovations, LLC

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

Location:  
Council on Competitiveness
900 17th Street NW, Suite 700
Washington, D.C. 20006

Time:  
9:00 a.m. – 4:00 p.m.

Attire:  
Business

Contacts:  
Katie Sarro, Council on Competitiveness (202-383-9507)
8:30 a.m.  Registration and Light Breakfast

9:00 a.m.  WELCOMING & OPENING REMARKS

Laurie Leshin
President
Worcester Polytechnic Institute

Aziz Asphahani
Chief Executive Officer
QuesTek LLC

Deborah L. Wince-Smith
President & CEO
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Building upon more than a decade of work on energy and manufacturing policy, the Council launched the Energy and Manufacturing Competitiveness Partnership (EMCP). This C-suite group of leaders from the private sector, academia, labor and the national laboratories is assessing the challenges faced by America’s energy and manufacturing sectors, and will present to national policymakers and private sector leadership a roadmap for concrete actions all stakeholders in our economy must take to leverage the seminal opportunity presented by today’s energy and manufacturing landscape. Critically, this initiative approaches America’s diverse industrial landscape not as a monolith, but as a network of distinct but interdependent productive sectors, each with its own challenges and opportunities. The EMCP will explore how crosscutting factors play out within each sector, identify the discrete factors shaping different sectors and assess common challenges and opportunity threads across all sectors.

9:30 a.m.  CAPABILITIES

To set the stage for the day, speakers will discuss current capabilities in our national labs, universities and across the private sector in advanced materials.

Gregory Olson
Walter P. Murphy Professor of Materials Science and Engineering
Northwestern University

William Goldstein
Director
Lawrence Livermore National Laboratory
10:15 a.m.  **BARRIERS & IMPEDIMENTS**

Despite tremendous progress, there remain regulatory, market and policy barriers and impediment to fully deploying the promise of advanced materials across the manufacturing and energy sectors.

*David U. Furrer*
Senior Fellow Discipline Lead
Pratt & Whitney

*Diran Apelian*
Alcoa-Howmet Professor of Engineering
Director, Metal Processing Institute
Worcester Polytechnic Institute

11:00 a.m.  **Coffee Break**

11:15 a.m.  **SOLUTIONS: infrastructure, technology, investment and talent**

The Council’s sector studies are designed to gather subject matter expertise on key sectors of the U.S. economy and explore the Council’s four cross-cutting pillars - *infrastructure, technology, investment and talent* - to produce tangible policy recommendations for future growth and development in energy and manufacturing. The presenters will incorporate reflections from the earlier sessions in their discussion of these four pillars of competitiveness.

*Technology*
*Tresa Pollock*
Department Chair, Materials
University of California – Santa Barbara

*Talent*
*Zi-Kui Liu*
Professor of materials & Science Engineering
Penn State University

*Infrastructure*
*Jim Roberto*
Associate Laboratory Director for Science & Technology Partnerships
Oak Ridge National Laboratory

*Investment*
*Aziz Asphahani*
Chief Executive Officer
QuesTek Innovations, LLC

12:00 p.m.  **Networking lunch**

12:45 p.m.  **PRESENTATION: Administration Perspective**

*Mark Johnson*
Director, Advanced Manufacturing Office
U.S. Department of Energy
1:15 p.m. **BREAKOUT SESSIONS (in parallel)**
Participants will break into four groups, each of which will address the same set of questions around the challenges and opportunities in advanced materials related to talent, technology, investment and infrastructure.

**Breakout Leaders:**
- **Aziz Asphahani**, *Chief Executive Officer*, QuesTek Innovations, LLC
- **Zi Kui Liu**, *Professor of Materials & Science Engineering*, Penn State University
- **Tresa Pollock**, *Department Chair - Materials*, University of California – Santa Barbara
- **Jim Roberto**, *Associate Laboratory Director for Science & Technology Partnerships*, Oak Ridge National Laboratory

2:45 p.m. **Coffee Break**

3:00 p.m. **DEBRIEFING FROM BREAKOUT LEADERS**
Participants will reconvene and breakout leaders will report back on key themes.

3:30 p.m. **CONNECTING KEY THEMES**
**William Bates**
Executive Vice President & Chief of Staff
Council on Competitiveness

3:45 p.m. **CONCLUSION & NEXT STEPS**
**Laurie Leshin**
President
Worcester Polytechnic Institute

**Aziz Asphahani**
Chief Executive Officer
QuesTek Innovations, LLC

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

4:00 p.m. **Workshop concludes**