

TA3 Meeting 2012

The Future of Manufacturing: Implications for Education and Training

Co-Hosted by the TA³, Kentucky Community and Technical College System, and Gateway Community and Technical College, Covington, Kentucky
October 1-3, 2012



TRANS-ATLANTIC
TECHNOLOGY and
TRAINING ALLIANCE

Manufacturing employment has been in decline in western economies, which generally is attributed to competition from newly developed lower cost regions and increasing automation. Most leaders believe, however, that retaining a viable manufacturing base is vitally important to the security and innovative capacity. Revitalizing manufacturing, however, will depend on creative forms of products and production. This symposium will address the following questions facing community and technical colleges in the U.S. and Europe in providing the skills needed for manufacturing to re-invent itself.

- Which types of manufacturing and which types of companies are most likely to continue to be competitive in advanced, high-wage economies?
- What are the challenges and opportunities associated with automation?
- What entrepreneurial opportunities will develop and can these produce a large enough employment base to be significant?
- What types and levels of skills and knowledge will community college graduates need in the future and what will their career paths look like?
- Why are too few students entering manufacturing career paths to replace a rapidly aging workforce, even with the promise of good wages?

Monday, October 1

8:30 am Welcome
- Updating the “Education of the Renaissance Technician”

9:00 am Looking Ahead

- Framing the Issue
 - Phil Singerman, Associate Director, Innovation and Industry Services, NIST-MEP
- Opportunities in niche markets
 - Adam Friedman, Director, Pratt Institute
 - Question and comments

10:30 am **Break**

- 10:50 am Views from the firms
Moderator/Speaker: Keith Bird, Chancellor Emeritus, Kentucky Community & Technical College System
- Winzelear Gear Company, Chicago
 - Kentucky company
 - Slawomir Tokarski, European Union DG-Enterprise and Industry
- 11: 30 am European perspective: What Skills and How Much Education?
- Risto Raivio, European Union
- 12:15 pm **Lunch**
- 1:30 pm Design in Manufacturing
Moderator/speaker Lou Lenzi, Director, Industrial Design, GE,(invited)
- Milwaukee Design Cluster representative (invited)
 - Jason Schupbach, Director of Design, National Endowment for the Arts (invited)
- 2:45 pm **Break**
- 3:15 pm **Session A New Opportunities**
Innovative programs at community college programs for new opportunities (e.g., emphasizing soft skills, servicing products, design thinking, industrial design, transfer to 4-year programs)
- Marjut Salminen, Tampere College, Finland
 - Greg Rutherford, York Technical College, South Carolina
 - To be named
- Session B Improved Attraction, Retention, and Partnerships**
Innovative Community College Practices to attract higher quality students, improve completion rates, and/or work with businesses.
- Rebecca Nickoli, Ivy Tech, Indiana
 - Jose Fernandez, tknika, Basque Region, Spain
 - Northern Ireland Further Education system
- Session C Entrepreneurial opportunities**
- 4:45 pm Adjourn

Tuesday, October 2

- 8:30 am **Tri-State Collaborative for Advanced Manufacturing**
Panel to be named

- 9:45 am **Opportunities in manufacturing services**
 Hanne Shapiro, Danish Technological Institute
- 10:15 am **Break**
- 10:45 am **Roundtable discussion**
 Q&A Panel on educational and employment challenges associated with
 automation and restructuring (skills, relevancy, employment, and self
 employment)
 Moderator and speaker: Hanne Shapiro, Danish Technological Institute
- Ed Hughes, Gateway CTC
 - Volker Reiner, Federal Institute for Vocational Education and Training,
 Bonn, Germany
 - Jose Luis Fernandez, tknika, Basque Region
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- 12:00 am **Wrap up**

TA3 Meeting

- 12:30 pm TA3 Lunch
- 1:15 pm TA3 Business Meeting
- 4:30 pm Adjourn
- 7:00 pm TA3 Dinner

Wednesday, October 3

Site visits to be announced