

Upskilling Technical Jobs: Preparing Industrial Maintenance and Mechatronics Technicians for the Future Workforce

Over the last ten years, the dramatic increase in automation within the manufacturing sector has allowed American business to stay competitive in the world economy. The substantial investment in technology that took place in the 1990's has had two dramatic effects on the workforce in those industries. . . a general

probably a mechanical repairer with electrical or machinist skills is now being confronted with electronic sensors, programmable logic controllers, and computer networks.

Mechatronics – the intersection of mechanical skills, electrical skills, control technology, and computer networking –

and best-practice examples with the Advanced Manufacturing Training Partnerships that exist around Pennsylvania. There is a track for planners from career and technology centers, community colleges, workforce investment boards, economic development entities, and existing industry partnership. . . but

A Symposium on Training the Workforce of Tomorrow for Businesses, Economic Developers, Educators, and Workforce Professionals March 21-22, 2007
Reading Area Community College, Reading, PA

decrease in the total number of people required and a major increase in the skill needs and pay among the positions that still exist.

In fact, many of the jobs that remain are “gold collar” jobs. . . high growth, high skill, and high pay.

While skilled operators will continue to be in demand in manufacturing, the job family that is associated with industrial maintenance seems to be an area where



shortages of skilled workers are presenting themselves. Many of the most highly skilled people in this part of the workforce are people who will be retiring in the next 5-10 years. The skill set for maintenance workers is expanding exponentially as technology changes the face of industry. The person who in years gone by was

has become the dominant skill set as



employers look for people with wider knowledge and more specific skills that are tied together by the ability to problem-solve situations where the solutions are not always evident. Unfortunately, the education and training to support these new requirements is fragmented with most of the training being provided on the job and by vendors. A pipeline from school to work is almost non-existent.

This two-day seminar brings together. . . people from industry that are defining the requirements and doing the training on the job with folks from training programs around the country (Nebraska, Virginia, Minnesota, Michigan) and around the Commonwealth to share their conclusions

there is also a track for trainers from business and technology teachers from education where they can see the latest in instructional technology for the lab and for use on-line.

In addition, the Industrial Maintenance Training Center which is the host for the seminar will talk about its integrated and articulated education and training process that leads from introduction to skill certificate to academic certificate to academic degree in a program that can be used with high school students, dislocated workers, and the incumbent workforce.



Sponsored by the Regional Center of Excellence in Packaging Operations

- Berks County Workforce Investment Board
- Lancaster County Workforce Investment Board
- South Central Workforce Investment Board
- Reading Area Community College

- Berks County Career and Technology Center
- Lancaster County Career and Technology Center
- PA Department of Labor and Industry
- PA Department of Education

- PA Department of Community and Economic Development
- The Pennsylvania Industrial Resource Center Network
- OMAC Packaging Group



Schedule March 21

Registration

8:30-10:00 Labs open for tours

10:00 -12:00 Welcome and Logistics
Review of the Schedule

Ed McCann, Executive Director, Berks County Workforce Investment Board, Reading, PA; **John DeVere**, Dean of Continuing Education, Reading Area Community College, Reading, PA and **Keith Campbell**, Project Manager, Industrial Maintenance Training Center, Reading, PA

Plenary and moderated panel

“The Imperative for Upskilling”
Raymond J. Uhalde, Director, Workforce Development Strategies Group, National Center on Education and the Economy, Washington, DC
Wes Coulter, Executive Director, National Center for Integrated System Technology, Morris, IL
Maria Ferrante, Editorial Director, Packaging Machinery Technology and Education Committee of Packaging Machinery Manufacturers Institute
Robert Harrison, Plant Manager, Pepperidge Farm, Denver, PA Metals or Printing

12:00 - 1:30 Lunch and Opening Keynote

“Upskilling the Technical Workforce: The Government Perspective”
Sandi Vito, Deputy Secretary for Workforce Development, PA Department of Labor and Industry, Harrisburg, PA

1:30 - 1:45 Break
1:45 - 3:15 Plenary

“Sustainable Industries and Gold Collar Jobs”
Scott Sheely, Executive Director, Lancaster County Workforce Investment Board, Lancaster, PA

“A Profile of the Maintenance Workforce and Career Ladder”
Barry Maciak, Executive Director, Institute for Economic Transformation, Duquesne University, Pittsburgh, PA

“Survey Results from Packing Industry”
Keith Campbell, Project Manager, Industrial Maintenance Training Center, Reading, PA

“Early Results from Industry Skill Assessments”
Bonnie Spayd, Director, Schmidt Training and Technology Center, Reading Area Community College, Reading, PA

3:15 - 3:30 Break
3:30 - 5:00 Plenary

“What is Mechatronics?”
Andrew McDonald, Supply Chain Project Manager, Unilever Americans and Chairman, OMAC Users Group

“Global Best Practices in Technology and Education: Europe and Mexico”
Arnold E. Offner, Industry Standards Manager, Phoenix Contact Inc.
Alberto Cornejo, Professor, Automation and Control Laboratory, ESIME, Zacatenco, IPN, Mexico
Brian A. Deal, Global Marketing Manager, ELAU, Schaumburg, IL

5:00 - 6:30 Reception

Schedule March 22

8:00 - 8:30 Continental Breakfast
Labs open for tours

8:30 - 10:00 “Best Practices in the United States: The South Central PA Model”
John DeVere, Dean of Continuing Education, Reading Area Community College, Reading, PA and **Keith Campbell**, Project Manager, Industrial Maintenance Training Center, Reading, PA

10:00 -10:15 Break

10:15 -11:45 “Best Practices in the United States: Education and Training”
(moderated by Scott Sheely)

Center for Automation and Motion Control (CAMC) at Alexandria Technical College, Alexandria, MN and Rural Minnesota Concentrated Employment Program, Inc.

• Chad Coauette • Jan Doebbert
Blue Ridge Community College, Weyers Cove, VA and Shenandoah Valley Partnership, Shenandoah Valley Workforce Investment Board, Blue Ridge Tech Prep Consortium, Massanutten Technical Center, Valley Technical Center, and VA Department of Industry and Apprenticeships

• Sharon Johnson • Jim Leech
Michigan Technical Education Center at Bay College in Escanaba, MI and the Upper Peninsula Regional Industrial Manufacturing Skill Alliance
• Steven Wood • Joseph Esbrook
Mechatronics Education Center and Central Community College, Grand Island, NE

• Doug Pauley • Dan Davidchik
Delaware County Community College
• Walter Yakobosky, Dean, Technical Education
Delaware Valley Industrial Resource Center

Amatrol
• Paul Perkins • Joseph Reid

Manufacturing Skills Standards Council

Penn State, Berks Campus

US Department of Labor

12:00 - 1:30 Lunch

1:30 - 3:00 Best Practice Showcase

3:00 - 3:30 Wrap-Up

Logistics

There is a registration fee of \$50 that covers two luncheons, two continental breakfasts, and the reception as well as all materials. Payment is due at the time of registration. Make checks payable to the "Lancaster County Workforce Investment Board".

Send to the Lancaster County Workforce Investment Board, 313 W. Liberty St., Suite 114, Lancaster, PA 17603 or wib@dejazzd.com or by fax at 717-735-0335. Contact Joyce Lenox at 717-735-0333.

All of the activities related to the conference will take place at the Schmidt Training & Technology Center at the Reading Area Community College (building 18 on map below). Parking is available in the adjacent Parking Garage (building 10 below).

Getting to RACC

Traveling East/West via PA Turnpike

Take the Morgantown Interchange exit, 176 North, for approximately 14 miles. Take the 422 West exit. Follow 422 West until you get to the exit marked Penn Street, Reading. Take the exit and you will immediately cross a bridge. As you cross the bridge merge into the right lane and turn right onto Second Street (The RACC Campus will be on your right). Go one block and turn right onto Franklin Street. Go one block and turn right onto Front Street, pass under the bridge and enter the parking garage to the right.

Traveling West via 422 from King of Prussia

Follow 422 West. Take 422 West (by-pass) until you get to the exit marked Penn Street, Reading. Take the exit and you will immediately cross a bridge. As you cross the bridge merge into the right lane and turn right onto Second Street (The RACC Campus will be on your right). Go one block and turn right onto Franklin Street. Go one block and turn right onto Front Street, pass under the bridge and enter the parking garage to the right.

Traveling South via Route 61

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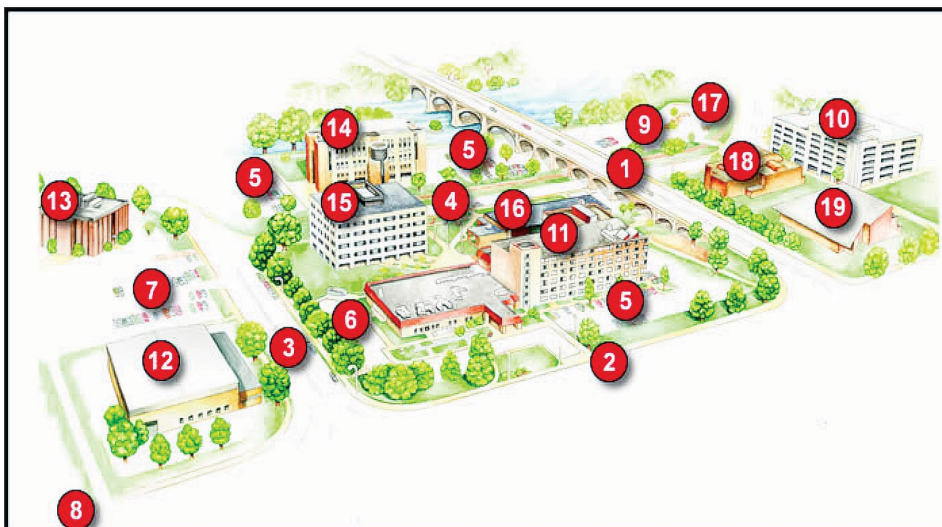
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Getting around RACC



1. Penn Street Bridge
 2. Second Street
 3. Franklin Street
 4. Front Street
 5. Faculty & Staff Parking
 6. Visitor Parking
 7. Student Lot B
 8. 2nd St. Entrance to Lot B
 9. Student Lot E
 10. Parking Garage
 11. Berks Hall
 12. Competition Tire
 13. Schuylkill Hall
 14. The Yocum Library
 15. Penn Hall
 16. The Gust Zogas Student Union Building
 17. The Orange Car
 18. Schmidt Training & Technology Center
 19. Miller Center
- Please park in Building 10.

1. Click here for main campus directions.
2. Click here for off-site directions
3. Click here for Hamburg directions.

Reading Area Community College is comprised of four buildings on a 10.5 acre campus. Parking is located on campus, within easy walking distance of all facilities.

Overnight Accommodations

Hampton Inn Reading/Wyomissing

1800 Papermill Road, Wyomissing, Pennsylvania, 19610
Tel: 610-374-8100 Fax: 610-374-2076

A block of rooms has been reserved at the Hampton Inn-Reading under the RACC-Industrial Maintenance Symposium. Call 610-374-8100 for reservations. A room rate of \$97 for a king single and \$92 for two double beds has been negotiated. Check-in time is 2:00 p.m.; check-out time is noon.

Sheraton Reading Hotel

1741 Papermill Road, Wyomissing, PA 19610
Tel: 610-376-3881 or 877-354-1011 Fax: 610-375-7562

A block of rooms has also been reserved at the Sheraton Reading Hotel under the RACC-Industrial Maintenance Symposium. Call 610-376-3881 for reservations. A room rate of \$99 has been negotiated. Check-in time is 3:00 p.m.; check-out time is noon. Room block will be open until March 16, 2007.

From 176 North to Route 422 West

At split follow 422West/Lebanon to the Papermill Road Exit. Follow Papermill Road to 2nd light. The hotels are straight ahead.

From 422 East

Take Papermill Road/Crossing Drive Exit, at stop sign turn left onto Crossing Drive. Continue to 2nd traffic light, turn left onto Berkshire Boulevard Blvd. At next light turn right onto Papermill Road. The hotels are straight ahead.

From 222 North

Take Broadcasting Road Exit. At traffic light turn left onto Broadcasting Road. Continue to Papermill Road (Chili's) turn left onto Papermill Road. The hotels are straight ahead.

From 222 South

Take Exit for Broadcasting Road. End of ramp turn right at Traffic light. Continue on Broadcasting Road to

Papermill Road. At Chili's turn left onto Papermill Road. The hotels are straight ahead.

From Pa Turnpike East

Exit 286, Denver/Reading. Follow 222 North to 422 East. From 422 East: Take Papermill Road/Crossing Drive Exit, at stop sign turn left onto Crossing Drive. Continue to 2nd traffic light, turn left onto Berkshire Boulevard Blvd. At next light turn right onto Papermill Road. The hotels are straight ahead.

From Pa. Turnpike West

Exit 298 Morgantown. Follow 176 North to 422 West. At split follow 422West/Lebanon to the Papermill Road Exit. Follow Papermill Road to 2nd light. The hotels are straight ahead.

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Registration

Name: _____

Organization: _____

Address: _____

Email: _____

Phone: _____

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