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From the Director ...

NCATC Friends and Colleagues,

NCATC has been a proud AACC Affiliated Council, exhibitor, and forum presenter for the annual AACC Convention for several decades. We will be in San Antonio, TX this year for the 95th Annual Convention and look forward to many of you visiting our booth — #610 and actively participating in this year's forum session by NCATC titled: "Advanced Manufacturing Technology Career Pathways – Driven by Business, Industry, and Entrepreneurial Growth."

We continue to be extremely proud of our 26 Strategic Partners Alliance (SPA) members. Our 2015 Summer Workshop: "Industrial Technologies: The NEW IT" will be hosted by Westmoreland County Community College this year. WCCC's strong industry and 2+2 high school partnerships will also be focal points of this year's workshop. Workforce and economic development initiatives with ExOne, Emerson, ECI, America Makes, NC3, Tooling U-SME, and many others will be integrated throughout the jam-packed two-day event in Greensburg, PA.

We look forward to seeing all of you at the AACC Convention, the NCATC Summer Workshop and NCATC Fall Conference this year. Until then, we encourage you to stay connected, regularly, via the NCATC website, social media, and quarterly e-newsletters like this one. As the leader in advanced technology workforce and economic development, you will find NCATC's resources a go-to source for timely information about workforce activities across the country as well as member benefits, resources, Board of Directors news, events, and value-added benefits from our Strategic Partners.



Craig
J. Craig McAttee
NCATC Executive
Director

Gateway Launches Center for Lean for Education

Debbie Davidson, Gateway Technical College

Located in southeastern Wisconsin, Gateway Technical College has been delivering Lean Six Sigma (LSS) training to its external business partners using e-Learning modules developed by The Quality Group (TQG). In 2013, Gateway began to apply those same Lean principles (which had delivered such impressive transformations to its business partners) to its own processes.



Ultimately, the college wanted to improve efficiencies and reduce waste to deliver a superior experience for all stakeholders—students, business partners, taxpayers, faculty, and staff. Under the visionary leadership of Gateway President and CEO Dr. Bryan Albrecht, the college introduced its quality journey with the establishment of the Office of Quality Systems, which is situated in the division of Institutional Effectiveness and Student Success.

Today, Gateway is developing a pervasive culture of excellence based on Lean Six Sigma and continual process improvement. Here's a look at how we're doing it:

- 100% of Gateway employees (over 600) have completed basic and internally developed LSS White Belt training. To sustain this pervasive culture, all new incoming employees complete White Belt training as a required onboarding element.
- LSS expertise continues to grow internally via the blended learning Lean Six Sigma curriculum. To date, five Green Belt Cohorts (27 cross-functional members) and one Black Belt Cohort (4 cross-functional members) have completed their training and/or projects.
- Gateway incorporated "creating a culture of excellence and continual improvement" as the second pillar of the College's Vision 3.2.1 Strategic Plan.

According to Albrecht, "Creating a culture of service at Gateway begins with building a common awareness and understanding of the tools necessary to infuse quality systems into our organization." Gateway wanted to apply Lean Six Sigma principles to an educational institution to improve process efficiencies and enhance quality of service. However, because the existing TQG curriculum was not designed for the education industry, employees were getting stuck on terms and examples, which weren't sufficiently relevant to college processes. As a result, Gateway took another bold step and partnered with TQG to develop Lean for Education, a 12-module e-Learning series specific to the education sector. The one-of-a-kind curriculum provides relevant and highly effective Lean training for college employees, in a blended learning format.

In fall 2014, NCATC, Gateway, and TQG initiated discussions to form a Center of Excellence (COE) for Lean for Education. The purpose is to provide resources to help colleges get training, support, and access to others so they can be successful with their Lean and process improvement implementations. At the January 2015 AACC WDI Conference, Gateway and TQG announced the launch of the COE as the national training and support hub for community colleges and others to build their cultures of excellence and continuous improvement. *[Continued on p. 4]*

Making Your Partnerships Pay Off

Scott Murakami, University of Hawaii Community Colleges

Greetings from paradise! As most of you know, since leaving Pacific Center for Advanced Technology Training (PCATT) four years ago, I've been working as the Director of Workforce Development in the Office of the Vice President for Community Colleges for the University of Hawaii System. In this position, I'm fortunate to work with other state and county agencies as well as industry groups throughout Hawaii that have resources that allow our campuses to sustain programs initially developed through grants like the U.S. Dept. of Labor's TAACCCT. Below is a short list of federal programs that may be helpful.

Type of Client	Federal Program	Federal Agency Administering Funds	Total Appropriation Funding	Helpful Resource
Qualifying Unemployed and Youth	WIA/ WIOA	U.S. DOL-ETA	\$804M	http://www.doleta.gov/WIOA/ Specifically: • TEGL 12-14 • TEGL 19-14 • Notice of Proposed Rulemaking Updates
Qualifying Low Income	Supplemental Nutrition Access Program	U.S.D.A.	\$73B (Projected)	http://www.cbo.gov/sites/default/files/cbofiles/attachments/04-19-SNAP.pdf
Qualifying Low Income with Children	Temporary Assistance for Needy Families	U.S. DHHS	\$16.5B	http://fas.org/sgp/crs/misc/RL32760.pdf
Vocational Rehabilitation	Vocational Rehabilitation Services	U.S. Dept. of Ed	\$3.1B (FY2012)	http://www2.ed.gov/policy/speced/guid/rsa/tac/2014/tac-14-02.pdf

Many of these programs are integrated social service programs that couple workforce training funds with core program services. By better understanding these programs you can offer your clients a more comprehensive employability solution while expanding into new markets.

If you're interested in pursuing these types of programs and funds, here's a bit of insight into the direction of federal funding. The only legislation that has passed into law with broad bi-partisan support has been the Workforce Innovation and Opportunity Act (WIOA) that takes effect on July 1, 2015. WIOA is a manifestation of President Obama's State of the Union request to Vice President Biden to complete a comprehensive review of America's job training programs that ensures a single mission: "Providing workers with the skills they need to secure good jobs that are ready to be filled." As a result, federal agencies are coming together to break down traditional agency silos as evidenced through the Checklist for Job-Driven Training: http://www.doleta.gov/wioa/pdf/GOVERNOR_2014072315364400.pdf

Under the WIOA legislation, core federal programs that are investing in skills development are REQUIRED to strategically align their workforce development programs. This includes employment services under Wagner-Peyser, ETA administered formula funds, adult education and literacy programs, and the vocational rehabilitation grants to state agencies. States are also being encouraged to include other partners that invest federal dollars in skills development like DHHS, TANF, and Perkins career and technical education programs to complement their 4-year strategy and state plans.

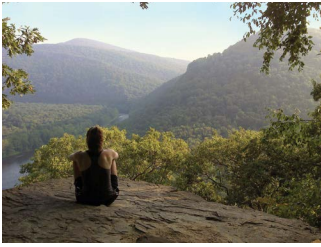
Advanced Technology Centers and non-credit workforce programs with their short-term, targeted, industry validated and adaptive training schedules can offer comprehensive solutions for all of your state's WIOA partners. I encourage you to seek out these contacts in your communities and learn how your programs and your leadership can play a vital role in changing the landscape of America's workforce.



NCATC and Stratasys Partner on Extreme Redesign Contest for 2015-16

Full details will be unveiled at the Summer Workshop at WCCC. Don't miss the announcement of this exciting partnership and special benefits just for NCATC participating colleges.

Summer Workshop in Pennsylvania, June 10-12: Don't Miss It



Join us in Pennsylvania's beautiful Laurel Highlands area for the NCATC summer workshop at Westmoreland County Community College's new ATC. Visit ncatc.org for the workshop brochure and schedule. Below are workshop highlights.

Preconference: June 10, 1:00–5:00 P.M. MultiMeter Certification

Sponsored by the National Coalition of Certification Centers (NC3)

Presenter: Dale Swick, WCCC

Modeled after Snap-on Diagnostic Certification, Meter Certification is an increasingly necessary program for a variety of industries such as Wind Power, Transportation, Manufacturing, and Technology programs. Schools within the NC3 network will have their instructors certified as trainers. Come early on June 10th and take advantage of this training opportunity.

Concurrent Sessions: June 11

Presented by both industry and community college training professionals, session topics will range from mechatronics, welding, additive manufacturing, and stackable credentials to ShaleNET and innovation.

Industry Tours: June 11



ExOne is a provider of 3D printing machines and 3D printed products and related services to industrial customers in multiple segments, including pumps, automotive, aerospace, heavy equipment and energy

EASTMAN Eastman manufactures chemicals, fibers and plastics materials which are used by customers as key ingredients to make products consumers use every day.



Equipment & Controls, Inc., has 60 years of experience in providing customized automation solutions for operations in

Western Pennsylvania, Ohio, and West Virginia.

Keynote Presenters Address Advanced Technology Workforce Development



Howard A. Kuhn, *Technical Advisor, America Makes/NAMII; Research Consultant, Ex One; Professor, University of Pittsburgh's Swanson School of Engineering; Co-founder, Concurrent Technologies Corporation.*

Dr. Kuhn will share highlights of a collaborative effort between the University of Pittsburgh, NCDMM, and WCCC to develop modular curriculum leading to a certificate in additive manufacturing. Dr. Kuhn is the inaugural recipient of America Makes' Distinguished Collaborator Award.



**Early-Bird Registration Deadline: May 13
Hotel Reservation Deadline: May 25**



**Plenary Session:
Women in Manufacturing**

- Lori Albright, President, Stellar Precision Components
 - Lorrie Paul Crum, VP Corporate Relations, Kennametal
 - Mary Catherine Motchar, President, Arbor Industrial Supplies, Inc.
- Moderator:* Dr. Tuesday Stanley, President, WCCC



Thursday Dinner Keynote:

Bill Flanagan, Executive Vice President, Corporate Relations, Allegheny Conference on Community Development, and WPXI-TV's host of Our Region's Business



Friday Breakfast Keynote:

Toni Neary, Business Development: Government and Education, Tooling U-SME

CALL FOR PRESENTATION PROPOSALS

**NCATC Fall Conference
October 7–9, 2015**

Sheraton Hotel, Clayton, MO

Hosted by



**Submission deadline: May 1.
Submit yours at ncatc.org today!**

West Virginia Northern and Local Industry Team to Design Mechanics Program and Strengthen Regional Economy

Mike Nager, Festo

In 2007, West Virginia Northern Community College (WVNCC) heard the voice of employers facing an aging workforce with no pipeline of qualified individuals to rely on. At the same time, increasing economic pressures on the manufacturing industry stressed the need to hire trained, skilled workers. The skill set most needed related to mechatronics, and WVNCC began discussing a new mechatronics program. Plans intensified when representatives of ArcelorMittal Steel Corporation met with the College to discuss their "Steel Worker for the Future" program and the needs at their Weirton plant.



At the time, however, WVNCC had no facilities to offer such technical programs. WVNCC administration decided to take advantage of the momentum to invest and collaborate with the industry to expand the College's mission and become more comprehensive.

High-quality Versatile Equipment for Hands-on Training

The project broke ground in May 2011. WVNCC wanted to create state-of-the-art mechatronics labs that incorporated electrical and mechanical maintenance, instrumentation, and computer control. The labs were designed to be flexible so they could be arranged in any configuration. This would allow WVNCC to serve the needs of credit courses as well as training for business and industry. High-quality hands-on equipment from Festo Didactic's LabVolt series was selected to fulfill not only current but future training needs.

The ability to use real-life components to simulate systems that students will experience in industrial settings is invaluable. The flexibility afforded by the wide variety of components for each LabVolt trainer allows instructors to use the equipment in creative ways. The curriculum that accompanies the equipment fits program objectives. Faculty report its biggest advantage is helping them bridge the gap between theory and practical applications.

Reaping the Fruits of Collaboration

WVNCC's mechatronics labs are now filled with engaged students and satisfied instructors. Four years later, the Mechatronics program is offered on two campuses, and 74 students



are listed as mechatronics majors. Local businesses assert that the program is ideal for creating the types of technicians needed in modern manufacturing.

Thus far, four of the five students who graduated in 2013 were employed within two weeks of graduation. This year, more than 10 students are expected to complete the program and area employers indicate they are interested in hiring more graduates.

WVNCC is now viewed as the college of choice for providing industrial and craft training, and new partnerships are being established with a number of employers. WVNCC's leadership and adaptability to the needs of industry definitively contributes to a bright economic future for the Northern Panhandle of West Virginia.

To learn more, watch the Mechatronics Program video at: <http://www.wvncc.edu/programs-of-study/mechatronics-a.a.s./2947>

• Gateway Lean Center (continued from page 1) •

The specific offerings of the COE feature e-Modules for self-paced Lean for Education and also onsite and virtual blended learning classes, using the e-Learning for basic knowledge transfer, to assist all levels of employees, from top administrators to staff as they strive to apply Lean principles to their daily work and to overall organizational improvement. The COE serves those just starting their Lean journey as well as those well underway. For detailed information about COE offerings, please visit: <http://coeedu.qualitycampus.com>.

If your college wants to learn more about the resources available from the COE, please contact Carol Dierdorff: cdierdorff@thequalitygroup.net or 678-244-5393.



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