

ALABAMA

ATEA 2016

TECHNICAL EDUCATION:

Innovations to Build
Tomorrow's Workforce



AMERICAN
TECHNICAL
EDUCATION
ASSOCIATION

53RD
NATIONAL
CONFERENCE



Conference Hosted by:
**THE ALABAMA COMMUNITY
COLLEGE SYSTEM**

**ORANGE BEACH, ALABAMA
MARCH 9 – 11, 2016**

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Chelle Travis, Assistant Vice Chancellor for Student Services, Tennessee
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Welcome to the 53rd ATEA National Conference on Technical Education



Sandra Krebsbach Ph.D., Executive Director of the American Technical Education Association

Welcome to the 53rd ATEA national conference. Thank you to the Alabama Community College System for hosting “*Technical Education: Innovations to Build Tomorrow’s Workforce*.” Chancellor Dr. Mark Heinrich and Co-Chair Dr. Tim Alford, Chief Workforce Officer, have convened an outstanding representation of Alabama’s workforce professionals and a distinguished set of presenters. Chancellor Heinrich will moderate the signature panel on Thursday morning, “Technical Education and the Gulf Coast Economy.” We are honored to have Governor Robert J. Bentley speaking at our closing session.

ATEA is the right size conference for educational teams and cohorts to join us and convene their own workshops pre and post. This year we are joined by two networks of technical educators: “*Leadership Capacity Building for Manufacturing and Manufacturing-related Programs*. NSF DUE–1304391, Ivy Tech’s Leadership Model for Deans and Chairs of Technical Programs” in Plenary 1; and “*Mechatronics: Transforming Skill Sets for High Paying Career Pathways in Automotive, Aerospace and Advanced Manufacturing: Key Collaborations that have transformed Competency Based Education through NSF Funding*,” in Plenary 2. ATEA Trustees Susan G. Smith, VP Ivy Tech, and Mary Kay Bredeson, Executive Director, COE for Aerospace and Advanced Manufacturing Everett, Washington, took the lead on bringing their cohorts in as Plenary Sessions.

You have 24 breakouts to choose from organized in two blocks, a three session block of 18 and a two session block of 6. Be sure to read over the choices and plan your breakout strategy.

Enjoy the Alabama hospitality, the good food and the beautiful Alabama gulf coast here at Orange Beach. A special thank you to the staff at Perdido Resort.



Paul Young, President of Northern Wyoming Community College District, President of the American Technical Education Board of Trustees

The American Technical Education Association is important in the transitioning of the nation’s economy which is our historical mission. We are excited and grateful to the Alabama Community College System for this fantastic event and conference. We need your help to continue to grow this organization. I look forward to meeting you and hearing your ideas.

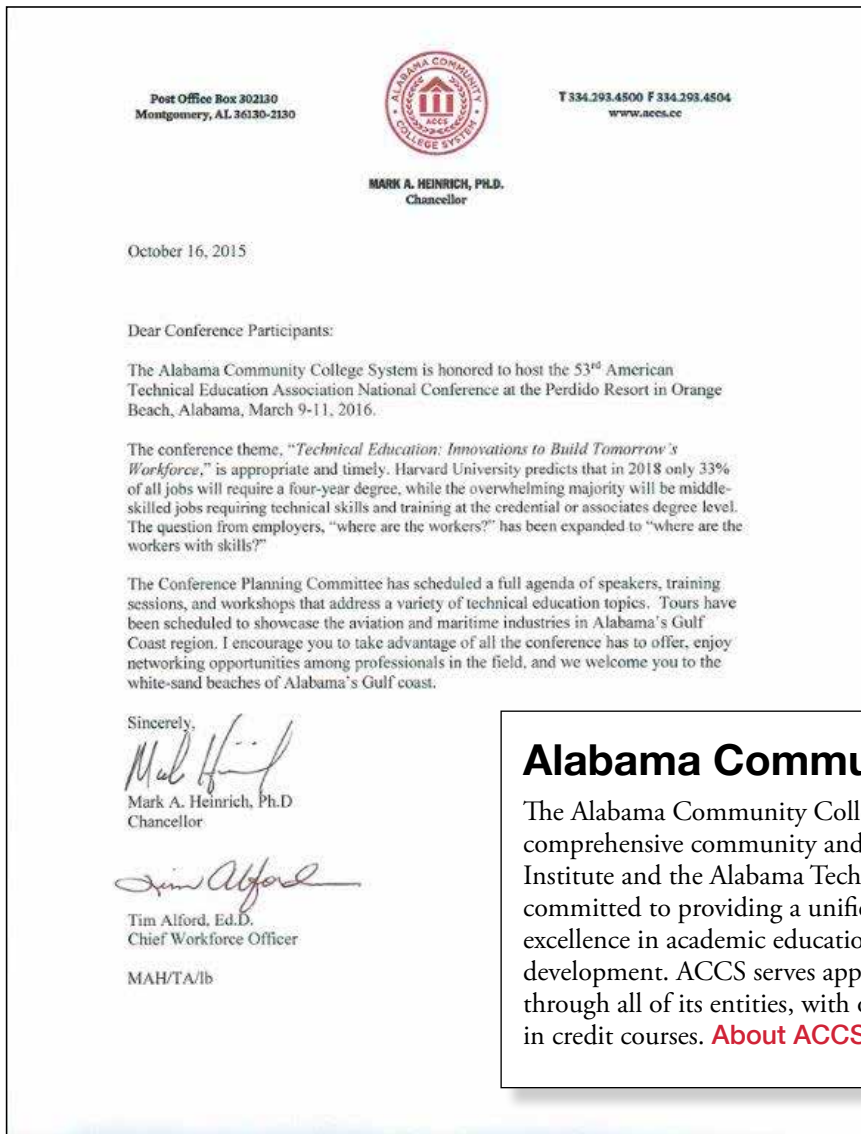
On behalf of the Board of Trustees, thank you for attending and thank you for what you do to continuously build the quality workforce of United States.

Friday Keynote Speaker Alabama Governor Robert Bentley



During Governor Bentley’s years in office, Alabama gained more than 80,000 jobs. In addition, Governor Bentley has recruited over 70,000 new, future jobs, many of which have yet to go online as new facilities are being constructed. Alabama’s manufacturing sector has grown under Governor Bentley with great gains in the automotive and aerospace industry. Airbus would forever help change Alabama’s economic landscape assembling commercial aircraft in Mobile. Airbus, headquartered in France, builds airplanes in Mobile with the skill and expertise of Alabama workers providing good, well-paying jobs. Governor Bentley currently chairs the Alabama Gulf Coast Recovery Council. He is Vice-Chair of the National Governor’s Association Economic Development and Commerce Committee, for which he was previously the chairman.

Invitation letter from Alabama Community College System



Alabama Community College System

The Alabama Community College System (ACCS) consists of 25 comprehensive community and technical colleges, Marion Military Institute and the Alabama Technology Network (ATN). ACCS is committed to providing a unified system of institutions delivering excellence in academic education, adult education, and workforce development. ACCS serves approximately 250,000 people annually through all of its entities, with over 120,000 of those served enrolled in credit courses. **About ACCS – www.accs.cc**



Dr. Mark Heinrich

Dr. Heinrich's higher education career spans more than 30 years, during which he's held leadership roles in academic, student service and technical/vocational areas. Prior to his appointment in 2012 to Chancellor he was the president of Shelton State Community College, Tuscaloosa Alabama. He holds BS and MS degrees from Tennessee Technical University and a doctorate from the University of Alabama.



Dr. Tim Alford

Dr. Alford, Chief Workforce Officer, for the Alabama Community College System, has experience in both the educational and workforce areas. Alford has previously served as the mayor of Enterprise, Alabama and as a teacher, principal, assistant principal, assistant superintendent, superintendent and Dean of Development at Enterprise State community College, Enterprise, Alabama. He holds a bachelors, masters and doctorate from Auburn University, Auburn, Alabama.

2016 ATEA 53rd National Conference Schedule

Perdido Resort, Orange Beach, Alabama | March 9–11

Tuesday, March 8

7:00–8:00 pm Registration desk is open

Wednesday, March 9

7:30–9:00 am Awards Committee Meeting

8:00 am–12:00 pm Exhibitor set up for Trade Show

8:00 am–4:00 pm Registration

9:00 am–12:00 pm ATEA Board of Trustee Meeting

12:00–12:45 pm **Amatrol sponsored Strolling Lunch Opens the Trade Show**

12:00–4:45 pm Trade Show Exhibit area open

1:00–4:00 pm **Plenary Sessions: Ballroom**

1:00–2:30 pm

Session I: “Leadership Capacity Building for Manufacturing and Manufacturing-related Programs. NSF DUE–1304391, Ivy Tech’s Leadership Model for Deans and Chairs of Technical Programs”

Moderator: Steve Wendel, Director–National Center for Manufacturing Education (NCME), Sinclair Community College, Dayton, Ohio

Panelists:

- Sue Smith Vice President for Technology and Advance Science Programs, Ivy Tech Community College, Indiana
- Aco Sikoski, Campus President - Valparaiso, Ivy Tech, Valparaiso Indiana
- Suzan Perry, Dean, Technology Division, Ivy Tech CC, Valparaiso
- Vearl Turnpaugh, Associate VP for Career and Technical Education, Ivy Tech Community College, Indiana
- Niaz Latif, Dean School of Technology, Purdue University, Calumet, Indiana

2:30–3:00 pm

Break

3:00–4:30 pm

Session 2: “Mechatronics: Transforming Skill Sets for High Paying Career Pathways in Automotive, Aerospace and Advanced Manufacturing. Key Collaborations that have transformed Competency Based Education through NSF Funding.”

Moderator: Mary Kaye Bredeson, Executive Director, Center of Excellence for Aerospace and Advanced Materials, Everett, Washington

Panelists:

- Danine Alderete-Tomlin, Executive Director, Automotive Manufacturing Technical Education Collaborative, (AMTEC) for the Kentucky Community College System. AMTEC is an NSF ATE National Center of Excellence in Automotive Manufacturing.
- Beverly Hilderbrand, Director of CARCAM- Gadsden State Community College, Gadsden, Alabama, Tennessee College of Applied Technology and Nissan Murfreesboro, Tennessee
- Gene Bowman, Executive Director Alamo Academy, Aerospace and IT, Advanced Manufacturing, San Antonio Texas
- Mary Batch, Assistant Manager, Human Resource Development, Toyota Motor Manufacturing, Texas.

- Dr. Lynn Kreider, Director Tennessee College of Applied Technology, Murfreesboro, TN
- Kevin Smith, Technical Training Manager, Nissan North American Inc.

5:30–7:30 pm



President’s Reception: Beach Deck

Welcomes by: Dr. Mark Heinrich, Chancellor of the Alabama Community College System and Dr. Paul Young, ATEA Board of Trustee President and President of the Northern Wyoming Community College District.

Comments: Dr. Paul Young, ATEA President

Silver Star Award presentation to ALCOA Inc. accepting Mr. Michael Rule, Central Services Engineering Manager, Knoxville, Tennessee.

Sponsors: L & H Industries, Gillette Wyoming; COE Aerospace and Advanced Manufacturing, Everett, Washington; Northern Wyoming Community College District.

Thursday, March 10

7:00 am–12:00 pm

TRADE Show Exhibit area open

7:00–7:30 am

Coffee available in Exhibit Area

7:30 am

Breakfast seating in Ballroom

8:00–9:00 am

Chancellor Dr. Mark Heinrich’s Panel and Breakfast
 “Technical Education and the Gulf Coast Regional Economy”

Panelists:

- Dr. Mark A. Heinrich, Chancellor, ACCS, moderator
- Dr. Tim Alford, Chief Workforce Officer, ACCS
- Dr. Philip Cleveland, Deputy State Superintendent, State Department of Education
- Mr. Ed Castile, Executive Director, AIDT
- Ms. Laura Chandler, Executive Director, Southwest Alabama Workforce Development Council Region

Concurrent Breakout Sessions		Ballroom Sessions	
9:10–9:55 am	Concurrent breakout session 1 <ul style="list-style-type: none"> • Salon A: Welding-Improving Engagement • Salon B: Allied Health Credentialing • Salon C: Tech Leadership—Achieving Excellence • Azure: Tech Leadership—Tips for New Adm • Emerald: Classroom Issues • Coral: WP Skills Culture Employability 	9:30–10:15 am	Ballroom Session 1 <ul style="list-style-type: none"> • D: Advanced Manufacturing • E: Just in Time Learning, “JiTL” • FGH: Post Millennial Dilemma: Teaching Soft Skills to a Digital Generation.
9:55–10:10 am	Coffee break in the exhibit hall	10:15–11:15 am	Pick up coffee in the exhibit space

Concurrent Breakout Sessions		Ballroom Sessions	
10:15–11:00 am	Concurrent breakout sessions 2 <ul style="list-style-type: none"> • Salon A: Welding: New Career 1 Semester • Salon B: Allied Health: Search for AP success • Salon C: TLeadership:Partnerships, • Azure: TLeadership:Motivating Students & Faculty • Emerald: CPT Dual Enrollmt Model • Coral: WP Skills, Give Employers WhatThey Want 	10:30–11:15 am	Ballroom Session 2 <ul style="list-style-type: none"> • D: Additive Manufacturing • E: Dual Enrollment: Creating a Skilled Cyber workforce through HS- College Partnerships workshop • FGH: Marriage Made In Business and Industry
11:10–11:55 am	Concurrent breakout session 3 <ul style="list-style-type: none"> • Salon: A ADV Manu – CAVS MS • Salon B: Allied Health—Dual Enroll/EMT • Salon C: TLeadership, Partnerships Automotive • Azure: TLeadership, Strategic Partnerships • Emerald: Innovative Teaching • Coral: WPSkills: Work Readiness Online 		

12–1:30 pm

ATEA National Awards Luncheon

2:00–5:30 pm

Business and Industry Tour Pick up lower level Valet Parking lot—sidewalk area near stairs

- AUSTAL—ID must be with you
- Port of Mobile
- Battleship USS Alabama

6:30 pm

Buses return to Perdido
Open evening

Friday, March 11

7:30–8:30 am

Regional Meetings—check at the ATEA booth for meeting location

9:00–10:30 am

Brunch: Ballroom

Keynote speaker: Honorable Robert J. Bentley, Governor of Alabama

10:30–11:15 am

ATEA Annual meeting—ballroom

Concurrent Sessions

Session	Time	Track	Room
1	9:10–9:55 am	Welding	Salon A
<p><i>Improving Engagement and Performance: Welding makes the World go Round</i> Presenters: Sarah Evans, Lincoln Electric Company and Joe Johnson, Wallace Cc</p> <p>How do we create engaging authentic learning experiences in advanced manufacturing that result in: Faster Skills Acquisition; Kinesthetic Skills Fused with Process Knowledge; More Standardization Across a Global Market Place; Greater Number of Learning Experiences; Increased Instructor Support; and Demonstration of Collateral Skills.</p>			
2	10:15–11:00 am	Welding	Salon A
<p><i>Welding - A New Career in Under a Semester</i> Roderick McSwain and Annette Brown, Welding Instructors Bishop State Community College</p> <p>Bishop State's three-tiered program offers students the opportunity to learn as much or as little necessary to land the job they want. Non-credit Ship-fitter Academies approximately 10 weeks. Credit stackable credential is two semesters including a NCCER Certification. First semester: fillets, and grooves--student can exit with a short certificate. First two semesters basic flux core and stick welding--training is sufficient to land employment with many shipyards or construction companies. Intermediate level, third semester both metal inert gas, or MIG, welding and tungsten inert gas, or TIG welding. The former is more popular with aluminum crafts-person such as AUSTAL USA, located in the College's service area.</p>			
3	11:10–11:55 am	Advanced Manufacturing	Salon A
<p><i>Technology Exchange Program for Engineering/Robotics for High School</i> Victor Branch, Center for Advanced Vehicular Systems, Canton, Mississippi</p> <p>This presentation will focus on a program designed to introduce the students and instructors to the latest technology, with emphasis on Robotics, Wireless Communications and Programmable Logic Controllers, being used at a major advanced manufacturing facility. Through the Career and Technical Centers involved with this program the background components are reinforced with the Engineering/Robotics programs that feed the 11th and 12th grade students into the STEP program. The STEP program allows future engineers or other professional career leaders to begin the process of the Co-Op type learning model for their future aspirations that includes a national FANUC robotics certification. This hands on training gives a head start on the type of equipment, modeling designs, programming, operations, teamwork, competition and other character and skill developing techniques that will be used throughout their professional careers.</p>			
1	9:10–9:55 am	Allied Health Care	Salon B
<p><i>Allied Healthcare Programs—Process for Credentialing and Accreditation</i> Dr. Thomas Finnegan, Dunwoody College of Technology, MPLS MN</p> <p>The presentation will consist of information regarding the steps to accomplish credentialing and accreditation of allied healthcare educational programs. These steps will include paperwork and financial obligations that must be forwarded to the appropriate accrediting body. Additionally the statistical needs for these professions nationwide will also be presented.</p>			
2	10:15–11:00 am	Allied Health Care	Salon B
<p><i>Happy Trails (HPTRL): A Search for A & P Success</i> Ken Wilson, Jefferson College, Hillsboro MO</p> <p>Health Professions Tutoring and Resource Lab at Jefferson College, Missouri, through TAACCCT Round IV, assists students in improving Metacognitive skills, improving Anatomy and Physiology success rates, and assisting students in persistence into a Health Occupation (HOP) or other related programs. This presentation will focus on what steps have been taken, what activities have been created, and what challenges are being faced..</p>			
3	11:10–11:55 am	Allied Health Care	Salon B
<p><i>Dual Enrollment EMT Program: A Solution to the Healthcare Needs of the Graying American Population</i> J. Brett McGill, Dean of Health Sciences, Mark Brandon Chair of Allied Health and EMS, Gwen Baker, Tech Prep/Workforce Development Coordinator Calhoun Community College, Decatur AL</p> <p>Americans are getting older and the number of trained healthcare workers in the workforce is not adequate to care for this “Graying of America”.</p> <p>The faculty and administration of Calhoun Community College envisioned a solution to this problem. By targeting local high school students who had expressed an interest in healthcare, the college offers a dual enrollment EMT program on the local high school campus to train high school seniors. Upon completion the student is immediately eligible to earn a workforce credential as an EMT and enter the workforce in a high growth job. More highly trained individuals are filtered into the healthcare workforce to care for the aging population and many of these individuals use their EMT training as a starting point to a greater healthcare licensure, many of the students desiring to be nurses, firefighters, paramedics, and even physicians.</p>			

Concurrent Sessions

Session	Time	Track	Room
1	9:10–9:55 am	Technical Leadership	Salon B
<p><i>Achieving Excellence via Establishing a Creativity-Supporting Organizational Paradigm</i> Darrel J. Kesler, Ph.D.; Professor and Dean, Ivy Tech Community College Northeast, Fort Wayne, IN , Robert Huffman, M.S Associate Professor and Program Chair of Automotive Technology, Ivy Tech Community College Northeast</p> <p>In today's organizations the characteristic most frequently absent is creativity. Yet, in a survey of 1,500 CEOs from 60 countries creativity was listed as the most important leadership characteristic in today's complex world. It can make day-to-day experiences more enjoyable and more rewarding. This presentation will outline a comprehensive creativity-supporting organization paradigm including personnel and physical elements and how the paradigm was implemented. It will describe preliminary success of implementing this paradigm in an academic—community college—setting. This includes development of programing for the recruitment and retention of students, programing for enhancing student engagement, addition of international and cultural dimensions, development of creative class activities, increased faculty interest in professional development and further education, etc., all in novel and creative ways.</p>			
2	10:15–11:00 am	Technical Leadership	Salon C
<p><i>Student Education, Success, and Employment: A Collaborative Partnership</i> Jimmy Hodges, Dean of Applied Technologies: Diana Majerik, Dual Enrollment, Fast Track, and Off Campus Programs Wallace State Community College, Jeff Curtis: Director of Fast Track for Industry. Cullman County Board of Education</p> <p>This presentation will highlight the collaborative details between WSCC Hanceville and the Cullman County School K-12 System regarding an early college initiative that focuses on high demand career and technical pathways, otherwise known as “Fast Track for Industry Academy”. This unique approach allows participating students and faculty from the Cullman County School System to be based on the WSCC campus. Students who participate in the Fast Track for Industry Academy earn their high school academic requirements or complete dual enrollment academics while majoring in a high demand/high wage technical program.</p>			
3	11:10–11:55 am	Technical Leadership	Salon C
<p><i>Building Partnerships in the Automotive Arena</i> Tom Berryman, Director Alabama Center for Automotive Excellence Lawson State Community College.</p> <p>The automotive service industry is facing an unprecedented shortage of technicians nationally. Independent service repair facilities, manufacturers, fleets and franchise organizations have never been better poised to implement training partnerships. Join us as we discuss how Lawson State Community College leveraged existing partnerships to develop new opportunities for our students.</p>			
1	9:10–9:55 am	Technical Leadership	Azure
<p><i>Tales from the Walking Dead: Tips for New Administrators</i> Barbara Anne Spears, Dean of Instruction, Central Alabama Community College, Alexander City, Alabama and Leslie Cummings Bevell State Community College Dean of Instruction</p> <p>Two Deans of Instruction from the Alabama Community College System will share survival tips for new instructional administrators. Tips should be valuable to administrators at both the college and K-12 level. Both deans have administrative oversight for academic, technical, and healthcare programs. Lessons learned will focus on technical programs for this conference.</p>			
2	10:15–11:00 am	Technical Leadership	Azure
<p><i>Building Strategic Training Partnerships</i> Mardy Leathers, Executive Director, East Central College Center for Workforce Development, Washington MO and Joel Doepker, Vice President for External Relations Institution/Company: East Central College, Washington MO</p> <p>Explore how developing strategic training partnerships can be just the game-changer needed to navigate the choppy waters of the skills gap dilemma. East Central College's Center for Workforce Development created a successful model in which private industry and higher education partner by working “hand in hand” to develop an innovative, comprehensive, and results driven approach to workforce training meet the specific skill development needs of firms. This presentation will highlight 3 key successful training partnerships developed to support the manufacturing sector in East Central Missouri.</p>			

Concurrent Sessions

Session	Time	Track	Room
3	11:10–11:55 am	Technical Leadership	Azure

Motivating Students and Faculty–The Teaching and Learning Continuum

Dave Laton, Assistant Director for Career and Technical Education Alabama Community College System

It is notable that those connected with education and training activities involving students considered as adults struggle with the question of how to motivate them to learn. Through the years teachers have looked for the quick fix to spur students to exceed the minimal expectations of a course. In this quest various terms have emerged to describe the level of student cognitive development in relation to motivating students. This presentation seeks to describe a Teaching-Learning Continuum as a method to explain the various pedagogical phases students move through as they seek and attain knowledge and skills and the roles that teachers play in facilitating motivation to learn as student progress through their learning activities.

1	9:10–9:55 am	Workplace Skills	Coral
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Building a Culture of Employability and Soft Skills on Your Campus

Dr. Mike Kennamer, Director of Workforce Development, Northeast Alabama Community College, Rainsville AL

Technical skills are vastly important in today's economy. However, according to a Stanford University study, only 20% of those who lose their jobs do so because of inadequate technical skills; 80% are released due to deficits in soft skills. This presentation shares one college's experience in building a culture of exemplary soft skills on their campus and explains the creation of a Workplace Readiness Certification (WRC), which recognizes students who demonstrate a pattern of exemplary soft skills.

2	10:15– 11:00 am	Workplace Skills	Coral
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Give Employers What They Want: Work Ethic

Josh Davies, Chief Executive Officer, The Center for Work Ethic Development, Denver Colorado

No matter what sector or region, employers are increasingly hiring talent based on soft skills like attitude and ambition, with the hope that they can train them to be up to par on things like tech skills and industry knowledge. These foundational behaviors are the top traits that hiring managers are looking for in candidates, and yet we focus almost all of our training on academic and technical skills. Discover cutting-edge tactics for building the foundational behaviors of work ethic, and give employers what they REALLY want!

3	11:10–11:55 am	Workplace Skills	Coral
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Workplace Readiness Online

David Mitchell, Melior, Inc. aka Todaysclass, Birmingham, AL

Many industries state that they cannot find qualified people to fill open positions. Many cite technical qualifications and suggest that “technical education” is not stepping up to the issue. To some degree the problem relates to an individual's basic skills in math, reading and writing as well as a willingness to work and learn on the job—to show up, commit to the organization, understand the value of a career, and to see the need to engage the team. The online project can be used as a team-based learning activity to engage the fundamentals of a career plan and life-long learning.

1	9:10–9:55 am		Emerald
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Classroom Discipline Issues Today

Judy Johnson, Master Instructor, and Ed Johnson, Campus Coordinator, Tennessee College of Applied Technology (TCAT), Crump and Janet Latimer, Student Service Coordinator, TCAT Paris, TN

How do instructors deal with the “Generation Me” students while simultaneously addressing the needs of non-traditional students? This will be a round table discussion where everyone has input to the behavioral problems encountered in our postsecondary classrooms sharing what they have done to rectify to redirect students to a path to success. Discussion will be lead from three perspectives, an instructor, and a campus coordinator and from student services. The goal is redirecting students to a pathway of success.

2	10:15 – 11:00 am		Emerald
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Working with Local School Systems to Develop a Certified Production Technician (CPT) Curriculum

Dr. Jim Barrott, Vice President for Technology and TCAT Director at Chattanooga State Community College and Dr. Mark A Griffith Director of Schools in Marion County, Tennessee, Dr. Allen, Secondary Supervisor for Curriculum and Instruction with the Marion County Schools.

How do instructors deal with the “Generation Me” students while simultaneously addressing the needs of non-traditional students? This will With a projected 3,500 new manufacturing production and technical jobs in the Chattanooga region by the end of 2016, new strategies to prepare high school graduates for work opportunities had to be devised and implemented. Working with the Marion County Schools and the Hamilton County Department of Education, the Manufacturing Excellence Program was initiated with the base curriculum being the Certified Production Technician (CPT) online program. In this presentation, the need will be outlined, the curriculum will be reviewed, and the results shown. Through this example, others can learn of ways to design and deliver a similar type program.

Concurrent Sessions

Session	Time	Track	Room
3	11:10 – 11:55 am		Emerald

Innovative Technology Training Strategy for the Pulp, Paper and Chemical Process Industries

Christie Prout, Instructor, Paper and Chemical Technology Institution/company: Alabama Southern Community College

How do we reduce the loss of knowledge transfer from experienced workers (ready to retire) to new hire employees? Alabama Southern Community College's NSF and an Industry Alliance supported National Network for Pulp and Paper Technology Training (NPT)² developed an innovative strategy to train the incoming workers to be able to quickly get up to speed on the equipment and technology encountered in today's process industrial environments. The ASCC Paper and Chemical Technology program trains in (mimicked) industrial equipment, industrial safety, running pilot plant facilities, inside and outside operator responsibilities, quality systems, and troubleshooting basic equipment systems. They train on pumps, valves, reactors, heat exchangers, boilers and distillation systems. The Industrial Alliance partners in pulp, paper, and chemical plants yearly review the curriculum for relevance and provide internships for hands on experience in actual mill environments to students in the program. Internships give students the expectations in the working environment, and gives the employers an opportunity to review the capability of the employee before committing to a permanent position.

Ballroom Sessions

Session	Time	Track	Room
1	9:30 – 10:15 am	Advanced Manufacturing	Ballroom D

Mechatronics: What is it really and what value does it add to our programs and for our students?

Joe Hendrix, Industrial Electronics/Mechatronics Department Chair, Wallace State Community College, Hanceville, Alabama

Mechatronics is a term that is being used to describe Manufacturing Multicraft Maintenance Technicians, but it is truly a skillset and thought process that can cross boundaries into other areas. This presentation will help you understand what Mechatronics means and help you implement or improve a Mechatronics program which uses the "Systems Approach". Certifications in Mechatronics will also be discussed.

2	10:30 – 11:15 am	Advanced Manufacturing	Ballroom D
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Additive & Advanced Manufacturing – How technology advances in additive and Advanced manufacturing are keeping American companies competitive

Terry Cambron, MAOL PARTNER EXECUTIVE - EDUCATION Stratasys, Mike Leary, Education Sales Manager Solidworks, Bobby Conrad; Sales Representative, Technical Training Aids, Dan Heim–Amatrol, and Paul Perkins - Amatrol

The challenges facing designers and manufacturers today are daunting. How do you plan to cover these topics with your students in the classroom? Join our specialists from Stratasys, Solidworks, Amatrol and Technical Training Aids to discover the tools that are available, including: FREE Curriculum, DISCOUNTED educational pricing, FREE classroom projects, Certifications, National competitions (Skills USA and Extreme Redesign Contest) and more.

1	9:10 – 9:55 am		Ballroom E
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Just in Time Learning (JiTT) Athens State University

Dr. Bridgette W. Chandler, Assistant Professor, Dr. Bridgette W. Chandler, Assistant Professor, Career Technical Education, Dr. Wendy Cowan, Associate Professor, Department Chair Professional Studies in Education, and Dr. Patricia Sims, Dean, College of Education

Just-in-Time Teaching (JiTT) is a teaching and learning strategy designed to promote the use of class time for more active learning (Novak et al., 1999). By defining and illustrating JiTT, instructors will recognize the approach and be more apt to employ online activities and web-based learning materials.

JiTTpoly will allow session participants to explore Just-in-Time Teaching (JiTT) in a casual, interactive setting. Course design related to structuring online tools for students in technical education programs will be discussed. Suggested steps for incorporating online experiences will be given. Workshop participants will leave with an outline for course structure analysis related to the incorporation of online activities, ready to implement. Additionally, participants will be provided examples and support for implementation.

Instructors, instructional designers, curriculum developers, and curriculum leaders will benefit from the workshop. Experience with online teaching is NOT necessary. Experience with JiTT or knowledge of learning theory is NOT necessary.

Ballroom Sessions

Session	Time	Track	Room
2	10:30 –11:15 am	BRING YOUR LAPTOP	Ballroom E

Dual Enrollment: Creating a Skilled Cyber Workforce through High School and Community College Partnerships

Greg Randall, Snead State Community College, Boaz, AL

The need for highly skilled cyber security professionals is at an all-time high. Developing a strong career pathway for high schools students in the field of Cybersecurity is essential to providing a quality cyber workforce. This session will introduce the concept of a dual enrollment partnership-training program with Marshall Technical School and Snead State Community College beginning fall 2015. An overview will be provided detailing the curriculum used in the training program, lab implementation using Netlab+, industry certification pathways, and issues related to program implementation. The session will conclude with a hands-on demonstration in ethical hacking using Netlab+.

1	9:10 –9:55 am		Ballroom FGH
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A Post-millennial Dilemma: Teaching Soft Skills to a Digital Generation

Dr Susan G. Stevenson, Executive Vice President and Chief Academic Officer, Marion Military, Marion, AL and COL Thomas L. Tate, USA (Ret) Director, Center for Leadership and Career Initiatives, Marion Military Institute

Today's traditional college students, the post-millennial generation, exist in a digital world—a world that operates and communicates on a 24/7 basis. Yet, when these students enter the traditional workforce, they are expected arrive at the worksite promptly at a specific time, dressed appropriately, and prepared to communicate with more than one syllable and an emoji. This workshop will focus on the characteristics of the current generation and offer strategies to promote soft skills to these students in preparation for their success in the workforce.

2	10:30 –11:15 am		Ballroom FGH
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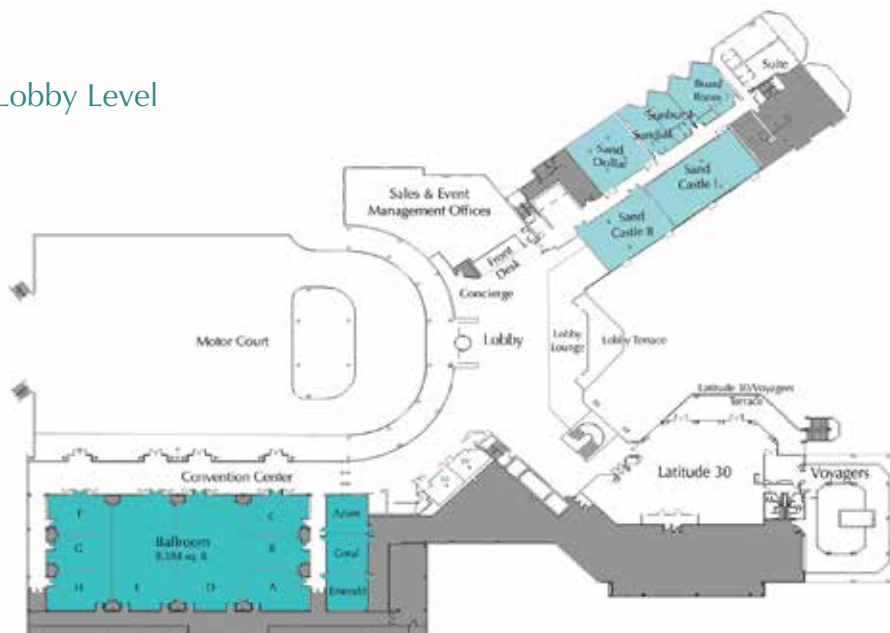
A Marriage Made in Business and Industry: Bevill State Community College and Alabama Power/Southern Company

Leslie Cummings, Dean of Instruction, Al Moore, Dean of Career Technical Education, Bevill State Community College, Tom McNeal, Workforce Development Specialist and Roger Marbutt, Technical Training Manager, Southern Company

This presentation focuses on the marriage (i.e. partnership) established between Bevill State Community College and Alabama Power/Southern Company Training Division. The presentation, explains how this partnership united the needs of three stakeholders: business and industry in the College service area, Bevill State Community College's instructional division, and current and future AL Power employees. The partnership provides for Bevill State Community College to help train current and future AL power employees while offering Prior Learning Assessment for on the job training. Bevill State Community College created new industrial focused degree programs to help provide skilled workers for local industry employment. This partnership is a great success for all involved - however, just like all great marriages, the road to wedded bliss did have some bumps. The presenters will discuss these bumps and how they were resolved so that everyone lived happily ever after!

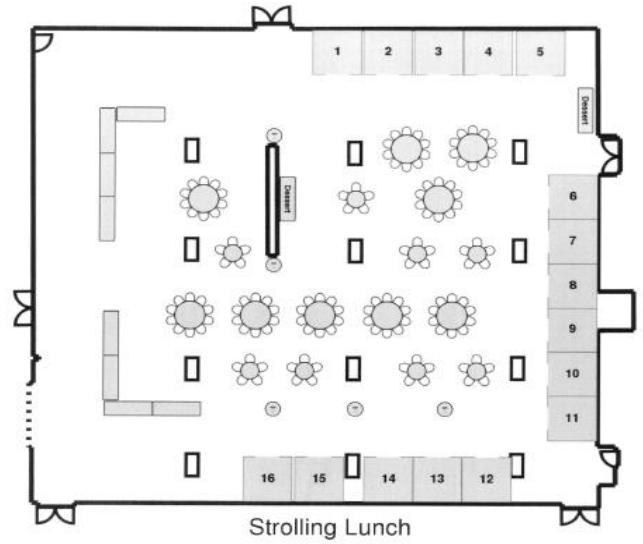
Hotel Map

Lobby Level



Trade Show Directory

Company	Booth Number
Learning Labs	1
American Welding Society	2
Automated Training Solutions	3
Amatrol	4/5
Goodheart-Willcox Publisher	6
American Technical Publishers	7
Today's Class - Melior, Inc.	8
The Center for Work Ethic Development	9
The Lincoln Electric Company	10
Paradigm Education Solutions	11
Future Tek, Inc	12
Trajecsys Corporation	13
The National Technical Honor Society	14



Hotel Map

Beach Level



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Plenary 1 Panel



MODERATOR
Steve Wendel



Sue G. Smith



Mr. Sikoski



Suzan Perry



Vearl Turnpaugh



Dr. Niaz Latif

Plenary 2 Panel



MODERATOR
Mary Kaye Bredeson



Danine
Alderete-Tomlin



Beverly Hilderbrand



Gene Bowman



Mary Batch



Kevin Smith



Dr. Lynn Kreider

Chancellor's Panel



MODERATOR
Dr. Mark Heinrich



Dr. Tim Alford



Philip Cleveland



Ed Castile



Photo not available

Laura Davis Chandler

Plenary 1 Panel

Steve Wendel, Professor at Sinclair Community College, Dayton, OH, serves as the Director of the National Center for Manufacturing Education (NCME). Originally established as a National Science Foundation Center of Excellence in the NSF Advanced Technological Education Program, the NCME provides leadership development for deans, program chairs, faculty and other educational leaders in manufacturing and engineering technology. Steve is also the Director for the Project Lead The Way (PLTW) Affiliate in Ohio. PLTW-OH has grown to over 450 programs in more than 200 school districts across Ohio preparing students for STEM career and college endeavors.

Before coming to Sinclair Community College in 1994, professor Wendel spent over a dozen years in industry as an engineer with both project management and applied research and development assignments. He earned both bachelor and master degrees in mechanical engineering from the University of Dayton.

Sue G. Smith is the Vice President for the Technology & Applied Sciences Division and Corporate Executive for Advanced Manufacturing at Ivy Tech Community College. Ms. Smith has worked at Ivy Tech for over 25 years in various

roles including Corporate College, Workforce Development, and now in the academic division. Smith began as a manager at Ivy Tech's Columbus campus in 1990, where she developed two new apprenticeship programs that grew to include over 800 participants, including local companies. In 1994, Smith became Executive Director of Workforce and Economic Development, where she grew sales from an average of \$150,000 to an average of \$1.8 million. Smith held this position until 2010, when she became the Corporate Executive for Advanced Manufacturing for Ivy Tech statewide. In the last few years, she has worked with all 14 Ivy Tech regions to improve sales and delivery functions to manufacturing industries.

Smith has also represented Ivy Tech in state, national, and international manufacturing organizations. She participates in numerous national and international partnerships, serving as both a speaker and host.

Increasing international partnerships and relationships is one of her passions and she has developed two sister college partnerships in Wuxi, China and Huzhou, China. Currently as vice president, Smith has statewide responsibility for and oversight of all Ivy Tech's technology and applied science degree programs.

Smith graduated from Indiana University with a bachelor's degree in journalism and associate degree in business. She later earned her master's degree in creative writing from Antioch University in 2007

Mr. Sikoski completed his Bachelors of Science in Electrical Engineering at the University of Kiril I Metodi in Skopje, Macedonia. He continued his education at Purdue University where he obtained his Masters of Science in Engineering. Intermittently, Mr. Sikoski has consulted for various institutions and organizations. In 1997, he started his career at Ivy Tech Community College where he has stayed until the present. He served as a professor, program chair, dean, and the campus President. As a program chair and dean, Mr. Sikoski was involved in developing several technology and engineering programs, including the Energy Technology and Pre-Engineering Program. Developing programs to meet industry workforce needs and student's successes is his priorities. He served as an educational co-chair and chair of the curriculum committee of the Indiana Energy Consortium and as a member of the Executive Board of Association of Technology Management and Applied Science and a visiting team member. Additionally, he serves on the advisory boards for College of Technology at Purdue University Calumet, Purdue University North Central and the Porter County Career Center.

Additionally, he served as a Co-PI on several National Science Foundation, grants, including "Meeting Workforce Needs for Mechatronics Technicians." Grant and "Leadership Capacity Building for Manufacturing and Manufacturing-related Programs".

Suzan Perry is the Dean of the Technology Division at Ivy Tech Community College. Prior to becoming Dean, she taught at Ivy Tech for twelve years and served as Design Technology Program Chair (Mechanical Design, Architectural Design and Computer Graphics).

Before joining Ivy Tech, Suzan worked in the steel industry in Chicago for just under twenty years. She was the Quality Assurance Manager, SPC Consultant and a Certified Quality Engineer.

She has drawn upon her industry, business and college teaching experience as she serves as Dean of the Technology Division

Vearl Turnpaugh is currently the Associate Vice President of Applied Engineering and Technical Education at Ivy Tech Community College of Indiana. In this role, Vearl serves as senior administrator over the School of Applied Science and Engineering Technology for Ivy Tech statewide. In this position he works to align academic programs, workforce development, and economic development throughout the state. Prior to this role he worked as Executive Director for Advanced Manufacturing Initiatives with Ivy Tech. In this previous role, he worked as Project Director for a 1.86 Million dollar High Growth Job Training grant in Advanced Manufacturing which was awarded to Ivy Tech by the U.S. Department of Labor. In addition to this role, Vearl has

worked as an Associate Professor, Division Chair, Department Head, and Instructor for Ivy Tech over the past twenty five years. Vearl is currently pursuing a Ph.D. and holds a M.S. in Industrial Technology and B.S. in Computer Integrated Manufacturing Technology from Purdue University.

Dr. Niaz Latif is the Dean of the College of Technology at Purdue University Calumet. He also served for two years as the Dean of the Graduate School and an additional two years as the Interim Associate Vice Chancellor for Research and Graduate Studies. Dr. Latif's academic career began as an instructor of engineering at Louisiana State University-Eunice. He joined Purdue University, West Lafayette, in 1999, as Professor and Head of the Department of Industrial Technology. Before joining Purdue University, he taught as an Assistant and Associate Professor at Northern Kentucky University. Dr. Latif is actively involved with workforce and economic development for Northwest Indiana. He is the Executive Director of the Commercialization and Manufacturing Excellence Center (CMEC) at Purdue University Calumet. Dr. Latif has also received several federal grants for workforce development, including grants for the US Department of Labor and the National Science Foundation. He is a member of the Munster Chamber of Commerce and the Munster Rotary Club.

Dr. Latif earned his Ph.D. degree from the University of Missouri, and holds an MS degree from South Dakota State University and a B.Sc. degree in Mechanical Engineering from the University of Chittagong in Bangladesh.

Plenary 2 Panel

Mary Kaye Bredeson is the Executive Director for the Center of Excellence (COE) of Aerospace and Advanced Manufacturing at Everett College, Everett Washington. She was appointed in 2003. Mary Kaye focuses on a targeted industry that drives the state's economy and is built upon a reputation for fast, flexible, quality education and training programs. The COE provides a central point of contact for industry employers to share their workforce needs with all 34 community and technical colleges within Washington state as well as other education and training providers. The COE for Aerospace has been very successful in implementing numerous state and federal Department of Labor grants focusing on building training capacity and transitioning students into high demand aerospace and advanced manufacturing jobs.

Through her travels to Dubai, Farnborough and the Paris Air Show with the governor's delegation, Mary Kaye has made vital connections that have furthered her work within the state. Most recently, Mary Kaye was awarded the Dr. Idahlynn Kane Exemplary Leadership Award at the 2013 Chair Academy Annual Conference in Mesa, Arizona.

Danine Alderete-Tomlin is the Executive Director and Principal Investigator of the National Center of Excellence in Advanced Automotive Manufacturing known as AMTEC, the Automotive Manufacturing Technical Education Collaborative. This Advanced Technical Education Center

(ATE) is funded by the National Science Foundation and hosted by the Kentucky Community and Technical College System in Versailles, Kentucky under President Dr. Jay Box. AMTEC is a recognized national collaboration of community colleges, automotive original equipment manufacturers, advanced manufacturers, and aerospace manufacturers working to strengthen the competency and global competitiveness of our advanced manufacturing industry. Through the development of industry validated standards and innovative competency based modularized curriculum for mechatronics technicians, assessments, and career pathways research, AMTEC has created a unique collaboration of international industry leaders and colleges that has become a prized model and a recognized National Best Practice by the National Governors Association.

Beverly Hilderbrand is the Director and Principal Investigator for the CARCAM Regional Advanced Technological Education (ATE) Center since 2009 and has been employed by Gadsden State Community College for 22 years. Beverly has a Bachelor's Degree in Business Administration and a Master's in Public Administration from Jacksonville State University.

Gene Bowman was named Executive Director of the Alamo Academies on 6 February 2006. Before coming to this position, he served for 28 years in the Air Force, retiring as a colonel from Lackland Air Force Base, San Antonio, Texas, as the Inspector General. He had a diverse career during his Air Force tenure from being a T-37 Instructor Pilot at Randolph Air Force Base, great San Antonio, leading a cadet squadron at the Air Force Academy in Colorado Springs, being a staff officer at the Pentagon and directing a division at Pacific Headquarters at Hickam Air Force Base, Hawaii. He is a graduate of the United States Air Force Academy and earned his Master's in Management from Webster's University at St. Louis, MO.

Mary Batch, Assistant Manager of Human Resources Development Toyota Motor Manufacturing, Texas (TMMTX)

Mary is currently Assistant Manager of Human Resource Development at Toyota Motor Manufacturing, Texas, Inc. (TMMTX), located on the south side of San Antonio, Texas. Mary areas of responsibilities in HRD are corporate and compliance training, team leader/group leader development programs, role base training, maintenance fundamental skills training, and the future pipeline initiatives.

Kevin Smith, Technical Training Manager Nissan North America, Inc.

Kevin has a MBA from Kennedy-Western University and has 39 years experience in manufacturing.

Dr. Lynn Kreider, Director, Tennessee College of Technology, Murfreesboro

After 20 years in the United States Air Force, Dr. Kreider began teaching 27 years ago for Delaware Technical and Community College, 8 years later he was hired as Dean of Technical and Professional Studies at Jackson State

Community College TN, then moved to West Monroe, LA in 2001 to become the Chancellor / Founding Father of Louisiana Delta Community College, than took over Colby Community College in 2006 to be their 4th President, and finally he has returned to the place they loved the most in 2012 and is working for the best Technical Education System in the Nation as Director of Tennessee College of Applied Technology/ Murfreesboro, Tennessee.

Chancellor's Panel

Chancellor Dr. Mark Heinrich, moderator, biography page 4

Dr. Tim Alford, panelist, biography page 4

Dr. Philip C. Cleveland is the Deputy State Superintendent for Career and Technical Education/Workforce Development.

In this role, he manages the Alabama State Department of Education, Career and Technical Education (CTE) Section, Guidance and Counseling program, and other initiatives focused on preparing students for a lifetime of success after high school graduation. He is a key liaison between secondary and postsecondary education and works closely with Alabama's Workforce and Economic Development sectors.

Dr. Cleveland and his family believe in the power of education—the positive impact it can make in the lives of young people. His past experiences span both the secondary and postsecondary education systems.

In secondary education, he served as an Agriscience Education teacher, Career Technical Education Director, and High School Principal.

His postsecondary experiences range from serving as the Vice President for Learning and Dean of Applied Technologies at Wallace State Community College, to the position of interim President of Chattahoochee Valley Community College.

Dr. Cleveland holds a bachelor's degree from Auburn University in Agriculture Business and Economics, a master's degree from Auburn in Agriculture Education, an A.A. from Alabama A&M University in Agribusiness Education, and an Ed.D. in Organizational Leadership from Nova Southeastern University.

Ed Castile was appointed Deputy Secretary of Commerce for Workforce Programs July 1, 2015. Mr. Castile continues to serve as Director of Alabama Industrial Development Training, a position he has held since August 16, 1993.

He is a former director of the State of Tennessee Industrial Training Service. He currently serves on the Governor's Alabama Workforce Development Board, the Economic Development Association of Alabama Board of Directors, the UAB Biotechnology Advisory Board, the Governor's Economic Alliance, the Montgomery Public Schools CTE Advisory Council, the Federal Reserve Bank of Atlanta's Labor, Education and Health Advisory Council, Chairman of the Governor's Black Belt Commission Workforce Development Committee, and Chairman of the Alabama Productivity Center Advisory Board. He is a two time past president of the

National Association of Industry Specific Training Directors.

Mr. Castile earned a Master's of Vocational Technical Education degree and a Bachelor of Science in Industrial Studies Education degree from Middle Tennessee State University in Murfreesboro, Tennessee.

In April 2010, **Laura Davis Chandler** became the Executive Director for Southwest Alabama Workforce Development Council (SAWDC), a non-profit organization formed in May 2008 with a mission to develop strategic partnerships which attract, educate and train students and workers to better meet employer needs and foster economic growth in a global marketplace.

Prior to joining SAWDC, Ms. Chandler held the position of President and Chief Executive Officer of the Gulf Coast Renaissance Corporation, a private, nonprofit corporation that was formed in the wake of Hurricane Katrina and in response to the critical need for workforce housing along the Mississippi Gulf Coast. As the Corporation's first President/CEO, Ms. Chandler was responsible for providing direction and leadership in the formation of a team and framework in order to stimulate investment in the three coastal counties of Mississippi. Shortly following the devastation of Hurricane Katrina and prior to her position as CEO, Ms. Chandler was asked to join Fannie Mae's Disaster Relief team as Senior

Deputy Director. Over a fifteen-month period, Ms. Chandler worked with local jurisdictions along the Alabama and Mississippi Gulf Coast in support of their rebuilding efforts. Upon her departure, Fannie Mae awarded Ms. Chandler's team with the 2006 Integration Team Award in recognition of their work.

Prior to Hurricane Katrina, Ms. Chandler held the position of Development Manager for the Apartment Division at The Mitchell Company, Inc., and was responsible for multifamily development in the Southeast. Prior to her position at The Mitchell Company, Inc., Ms. Chandler was a development manager with Gables Residential (formerly Trammell Crow), a national premier multifamily real estate firm. During her 10-year tenure, Ms. Chandler was involved in the development of over 2,000 market rate apartment homes in the Atlanta MSA.

Ms. Chandler holds a Master's in City and Regional Planning with a concentration in Land Development from the Georgia Institute of Technology and a B.S. in Business Administration from Auburn University. Ms. Chandler serves on the Partners Council of the National Fund for Workforce Solutions, the Alabama Construction Recruitment Institute (ACRI) Advisory Board, the Education Commission, the Mobile County Public Health Advisory Board, and the Central Gulf Industrial Alliance Workforce Development Committee.

2016 ATEA 53rd National Conference Awards

American Technical Education Association Board of Trustees and the National Technical Honor Society will confer the Silver Star of Excellent Award on ALCOA Inc. for best practices of a business in support of technical education.

American Technical Educational Association will confer:

Outstanding Technical Student Award

Brandon Kinnie, Nuclear Engineering Technology,
Three Rivers Community College, Norwich, Connecticut

Outstanding Technical Teacher finalists –winner announced at the ceremony

Carlton Carter, Electronics Technology Instructor,
Tennessee College of Applied Technology, Memphis

Michael Sledzinski, HVAC Instructor,
Tennessee College of Applied Technology, Knoxville, Tennessee

Randy Whyte, Machine Tool Technology,
Sheridan College, Northern Wyoming Community College District

Outstanding Technical Program

Automotive Technology, Ivy Tech Community College, Fort Wayne, Indiana

Innovative Program

Boot Camp, Gateway Technical College, Racine, Wisconsin

Jean Koch Outstanding Technical Education Achievement Award

Dr. Harry Bowman



What is the American Technical Education Association?

ATEA is an autonomous, non-affiliated international association devoted solely to the purposes of postsecondary technical education. It is an organization dedicated to excellence in the quality of postsecondary technical education with emphasis on professional development. ATEA is a driving force behind workforce development.

ATEA was founded in Delmar, New York in 1928 and incorporated as a non-profit professional education association in 1960. In 1973 the national headquarters moved from New York to Wahpeton, North Dakota to the campus of North Dakota State College of Science. In 2012 the national office moved to Dunwoody College of Technology, a private non-profit technical college founded in 1914 in Minneapolis.

American Technical Education Assn.
Dr. Sandra Krebsbach
Executive Director, ATEA

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- Hire technically prepared employees
- Support or provide technical education pathways: secondary to postsecondary or postsecondary to university levels.

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- Promote high quality technical education.
- Advocate the value of technical education to society.
- Disseminate information regarding current issues, trends and exemplary practices in technical education.
- Partner with educational institutions, business, industry, labor and government to enhance workforce development strategies.

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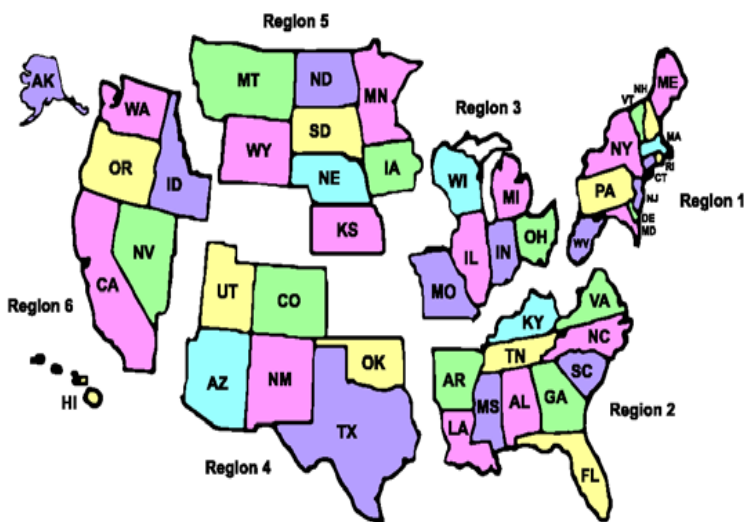
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ATEA National Office



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