League.org
FOR INNOVATION IN THE COMMUNITY COLLEGE

Conference Program

~ and ~

Guide to the Exhibition

STEMtech CONFERENCE
November 6–9
PHILADELPHIA, PA 2016

PHILADELPHIA

Hosted by Community College of Philadelphia
Atlantic Cape Community College
Bucks County Community College
Delaware County Community College
Reading Area Community College
Rowan College at Burlington County

LeagueSTEMtech

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Innovations CONFERENCE

March 12-15, 2017

San Francisco Marriott Marquis
San Francisco, CA

www.league.org/inn2017

Learning Summit

June 11-14, 2017

Omni Montelucia
Scottsdale, AZ

Hosted by the
Maricopa County Community
College District

www.league.org/ls2017

ELI

Executive Leadership Institute

December 10-14, 2017

Omni Montelucia
Scottsdale, AZ

CITY OF PHILADELPHIA

OFFICE OF THE MAYOR
215 City Hall
Philadelphia, PA 19107
(251) 686-2180

JAMES F. KENNEY
Mayor

November 6, 2016

Dear Friends:

It is a pleasure and a privilege to welcome you to Philadelphia for the 7th annual STEM*tech* Conference, November 6-9, 2016. Philadelphia and its citizens keenly appreciate the importance of the STEM fields of Science, Technology, Engineering and Math in our City's development and we are making great strides in both STEM education enrichment and in the support available to our burgeoning tech industries. As such, we are proud to serve as the host city for this year's STEM*tech* Conference.

We commend the League for Innovation in the Community College (League), organizer of the Conference, for their 48 years of service to community college institutions across the country. Founded in 1968 by B. Lamar Johnson and a dozen community and technical college presidents, the League has sponsored more than 200 conferences, institutes, seminars, and workshops; published over 200 reports, monographs, periodicals, and books; led approximately 140 research and demonstrations projects; and provided numerous other resources and services to the community college field.

This year's conference will feature hundreds of special sessions, forums, roundtable discussions on advances in STEM and community college-specific issues. The conference tracks will examine learning analytics, advanced technology systems, learning management architecture, and advances in online learning. Additionally, speakers will explain how to use analytics to recruit, retain, and transition students. On the STEM side, attendees will explore advances in health, science, mathematics, energy, architecture, manufacturing, aerospace, and agriculture as well as the integration of STEM and the liberal arts.

We applaud the STEM*tech* Conference for providing an opportunity for professionals from a diverse range of backgrounds to connect and work together to better our world through STEM and education initiatives.

On behalf of the City of Philadelphia, I invite Conference participants to take some time out of their busy schedules to visit some of the City's unique landmarks of American history and enjoy Philadelphia's distinctive shopping and dining destinations.

We wish you a very successful and productive Conference and hope that you return again soon, and often.

Sincerely,

James F. Kenney
Mayor

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CONFERENCE AT A GLANCE

24-Hour Wireless Hotspot
11:00 AM Sunday - 10:30 AM Wednesday

SUNDAY, NOVEMBER 6

9:00 AM - 3:30 PM	Full-Day Forum
11:00 AM - 4:30 PM	Registration
12:30 - 2:30 PM	Special Session and Forums
2:30 - 3:45 PM	**Coffee and Refreshment Break in the Exhibition Hall**
4:00 - 5:30 PM	**Opening General Session**
5:30 - 7:00 PM	**Opening Reception in the Exhibition Hall**

MONDAY, NOVEMBER 7

7:00 AM - 5:00 PM	Registration
8:00 - 9:00 AM	Special Session, Forums, and Roundtable Discussions
9:15 - 10:15 AM	Special Session, Forums, and Roundtable Discussions
10:30 - 11:30 AM	Special Session, Forums, and Roundtable Discussions
11:30 AM - 1:00 PM	**Coffee and Refreshment Break in the Exhibition Hall**
1:15 - 2:15 PM	Special Session, Forums, and Roundtable Discussions
2:30 - 3:30 PM	Special Session, Forums, and Roundtable Discussions
3:45 - 4:45 PM	Special Session, Forums, and Roundtable Discussions
4:45 - 6:30 PM	**Reception in the Exhibition Hall**

TUESDAY, NOVEMBER 8

7:00 AM - 5:00 PM	Registration
8:00 - 9:00 AM	Special Session, Forums, and Poster Sessions
9:15 - 10:15 AM	Special Session, Forums, and Poster Sessions
10:15 - 11:15 AM	**Brunch in the Exhibition Hall**
11:30 AM - 12:30 PM	Special Session, Forums, and Poster Sessions
12:45 - 1:45 PM	Special Session, Forums, and Poster Sessions
1:45 - 3:00 PM	**Coffee and Refreshment Break in the Exhibition Hall**
3:15 - 4:15 PM	Forums and Poster Sessions
4:30 - 5:30 PM	Special Session and Forums

WEDNESDAY, NOVEMBER 9

8:00 - 9:00 AM	Forums
9:15 - 10:15 AM	Forums
10:30 AM - 12:00 PM	**Closing General Session**

SPECIAL SUPPORT

League for Innovation Corporate Partners play a central role in maintaining the technical sophistication of this event and sponsoring ongoing League activities. The League acknowledges and thanks the following organizations for their special support of the 2016 STEM*tech* Conference.

American Public University
Ready when you are.™

(Booth 512)
Sponsor of the 24-Hour Wireless Hotspot

THE NROC PROJECT

(Booth 306)
Sponsor of the Conference Notepads

CAROLINA DISTANCE LEARNING

(Booth 413)
Sponsor of Sunday's Reception in the Exhibition Hall

WALDEN UNIVERSITY
A higher degree. A higher purpose.

(Booth 412)
Sponsor of Monday's Coffee and Refreshment Break in the Exhibition Hall

FACULTY VOICES

(Booth 318)
Sponsor of the Conference Bags

The League also extends special thanks to the Philadelphia Marriott Downtown, GES, and AV Images for their assistance in making this conference a success.

STEERING COMMITTEE

STEM*tech* 2016 is produced with the efforts and support of individuals from Community College of Philadelphia, Atlantic Cape Community College, Bucks County Community College, Delaware County Community College, Reading Area Community College, and Rowan College at Burlington County. Our special thanks go to the many volunteers who provided assistance to create an exceptional conference experience.

STEERING COMMITTEE CHAIR
Lynette Brown-Sow
Vice President, Marketing and Government Relations
Community College of Philadelphia

AV/TECHNICAL SUPPORT TEAM LEADER
William Bromley
Director, Information Technology Support
Community College of Philadelphia

REGISTRATION SUPPORT TEAM LEADER
Gloria A. Oikelome
Assistant Dean, Science and Mathematics
Reading Area Community College

SPEAKER SUPPORT TEAM LEADER
Lisa Angelo
Dean, STEM
Bucks County Community College

EXHIBITORS

A fundamental feature of the STEM*tech* Conference is the exhibition of education- and technology-related products and services provided by League for Innovation **Corporate Partners** and **participating colleges**. These organizations are dedicated to serving the community college market and contributing to the success of this event. Participating exhibitors at this year's conference are described more fully in the Guide to the Exhibition, starting on page 38 of this program.

The Exhibition Hall is located in **Franklin Hall B, Level 4**.

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GENERAL INFORMATION

ABOUT THE CONFERENCE
The League's STEM*tech* Conference brings you the best of STEM, analytics, big data, advanced technology, and learning management architecture. At STEM*tech*, college and university faculty members, K-12 teachers, administrators, government officials, and community and business representatives gather to celebrate, share, and explore research, best practices, and innovative ideas with their colleagues from around the world. We thank you for being part of this event.

All conference events take place at the Philadelphia Marriott Downtown, on levels 4 and 5 (maps on page 46).

Conference Tracks
- Learning Analytics
- Advanced Technology Systems and Learning Management Architecture
- Using Analytics to Recruit, Retain, and Transition Students
- Advances in E-Learning
- Health and Science
- Mathematics, Engineering, and Architecture
- Manufacturing, Energy, Aerospace, and Agriculture
- Integration of STEM and the Liberal Arts

Smoking is not permitted in any conference area.

CONFERENCE REGISTRATION
Pick up your conference materials and badge at the Conference Registration Desk (**Grand Ballroom Foyer, Level 5**). Your badge is your ticket to all conference activities, so please wear it whenever you are in the conference area.

Registration Hours
Sunday 11:00 AM - 4:30 PM
Monday 7:00 AM - 5:00 PM
Tuesday 7:00 AM - 5:00 PM

Lost and Found: Please turn in found items at the Conference Registration Desk. After the conference, items will be left with the Philadelphia Marriott Downtown loss prevention department.

SPEAKER SUPPORT
Presenters: After picking up your conference badge, please check in with Speaker Support (**Grand Ballroom Foyer, Level 5**) to confirm session details and to ask general questions regarding presentations.

Speaker Support Hours
Sunday 11:00 AM - 4:30 PM
Monday 7:00 AM - 5:00 PM
Tuesday 7:00 AM - 5:00 PM

HOTEL BUSINESS CENTER HOURS
Kinkos (lobby level) is open 24 hours a day.

LEAGUE ALLIANCE
League Alliance college employees are attending the conference at a discounted registration rate. Learn more about membership benefits by visiting the League booth (#318) in the Exhibition Hall.

EXHIBITION HALL
STEM*tech* features an engaging exhibition of products and services provided by League for Innovation Corporate Partners. Visit with Partner representatives, network with colleagues, and enjoy light hors d'oeuvres, a brunch, coffee, or refreshments in the Exhibition Hall (**Franklin Hall B, Level 4**) during hall hours. The Guide to the Exhibition, which includes detailed exhibitor information, begins on page 38 of this program.

24-Hour Wireless Hotspot
Sponsored by American Public University

Take advantage of the Wireless Hotspot (**Grand Ballroom Foyer, Level 5**) from 11:00 AM Sunday to 10:30 AM Wednesday. Network name: Stemtech2016; password: 2016league.

SOCIAL MEDIA
Get more out of your conference experience by staying connected with the League.

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MOBILE APP
The free STEM*tech* Conference app for iPhone and Android provides mobile access to the conference schedule, a complete list of sessions and exhibitors, and general conference information. The itinerary builder allows you to plan your personal conference agenda.

SECURITY/EMERGENCIES
Hotel security is available 24 hours a day. If you need to contact security, require first aid, or have an emergency, proceed to the nearest house phone and dial 51 for assistance.

RECORDING PRESENTATIONS
Video, photo, or audio recording of conference presentations is not permitted without the express written consent of the League, except by presenters who want to record their own sessions. The League reserves the rights to all recordings or reproductions at its conferences and meetings.

This logo identifies sessions being recorded for postconference on-demand viewing in iStream, the League's comprehensive, online resource bank for faculty, staff, and administrators. Visit the League booth (#318) to learn more about iStream.

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DISTANCE LEARNING

Carolina Biological Supply Company

SUNDAY
NOVEMBER 6, 2016

✯ 9:00 AM - 3:30 PM

FORUM

Learning Analytics

Community College Voices: Public Engagement Strategy Lab

Franklin 13, Level 4

Sponsored by Faculty Voices, a League for Innovation Initiative

Public Agenda's trainers will lead a collaborative workshop aimed at helping educators master strong, lasting, and authentic engagement. We will help you to develop practical skills for planning for a stronger engagement infrastructure at your community college. This training will give you the tools you need to work with students, faculty, and staff to improve student success, gather input on decisions, and improve faculty's ability to engage with administration. The format is not only informative, but also practical, including small and large group discussions, case studies, and interactive exercises.

Nicole Hewitt, Senior Public Engagement Associate; Mattie Bennett-Caswell, Public Engagement Assistant, Public Agenda, NY

✯ 11:00 AM - 4:30 PM

REGISTRATION

Grand Ballroom Foyer, Level 5

✯ 12:30 - 2:30 PM

SPECIAL SESSION

Mathematics, Engineering, and Architecture

CSM and REC Foundation: Achieving VEXcellence Through Robotics Competition

Franklin 2, Level 4

Learn how VEX U college competition provides engineering, computer science, and other students real-life engineering challenges. Get tips on recruiting, funding, mentoring, and community outreach. Student-centered learning and team approaches are emphasized. Visit us in booth #113 for hands-on robotic activities.

Bernice Brezina, Interim Chair, Business and Technology; Ronda Jacobs, Area Coordinator, Information Technology; William Luyster, Professor, Math, Physics, and Engineering; Byron Brezina, Professor, Math, Physics, and Engineering, College of Southern Maryland, MD; Jim Crane, Director, Regional Operations, Robotics Education & Competition Foundation, TX

FORUMS

Using Analytics to Recruit, Retain, and Transition Students

Academic Coaching: Leveraging Analytics for Improved Retention, Persistence, and Completion

Franklin 1, Level 4

Come learn how academic coaching helps you maximize analytics regarding students' likeliness to persist and graduate. Participants will explore strategies and tools to help students deepen self-awareness, clarify values, and commit to success.

Maureen Breeze, Senior Vice President, LifeBound, CO

Advances in E-Learning

CCC and OSB Implement Courses Using HoloLens Mixed Reality Technology

Franklin 4, Level 4

As a result of a Microsoft grant to develop curriculum using HoloLens mixed reality technology, Clackamas Community College student teams created an interactive 3D model of an automotive transmission at Oregon Story Board's custom computer lab. A limited number of participants will be selected for a hands-on HoloLens demonstration. Visit us in booth #209 for more hands-on opportunities.

Shelley Midthun, Executive Director, Oregon Story Board, OR; Thomas Wester, Instructor, HoloLens, Clackamas Community College, OR

Mathematics, Engineering, and Architecture

Modular Math in Action

Franklin 3, Level 4

In this forum, we will develop modules for a college technical math course, create a framework for a modular math program, and compare your plans with an existing modular system.

Michael Delgaty, Coordinator, Mathematics, Applied Science, and Environmental Technology, Algonquin College, ON, Canada

✯ 2:30 - 3:45 PM

COFFEE AND REFRESHMENT BREAK

Franklin Hall B, Level 4

ELECTION NIGHT COVERAGE ON THE BIG SCREEN

Tuesday, November 8
5:30 - 7:30 PM
Grand Ballroom A-F

Come enjoy some traditional Philly fare and join colleagues for election night coverage.

✯ 4:00 - 5:30 PM

OPENING GENERAL SESSION

Grand Ballroom A-F, Level 5

CHAIR
Rufus Glasper
President and CEO
League for Innovation in the Community College

WELCOME
Donald Generals
President
Community College of Philadelphia

2016 Terry O'Banion Student Technology Award Winners

KEYNOTE PRESENTATION

Top Technology Issues and Opportunities (Community Colleges Should Care About)

John O'Brien
President and CEO
EDUCAUSE

Dr. O'Brien will discuss a number of crucial technology challenges and opportunities for higher education, with special attention to those that are most critical or promising to community, technical, and comprehensive colleges.

✯ 5:30 - 7:00 PM

OPENING RECEPTION

Franklin Hall B, Level 4
Sponsored by

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with the *SuccessNavigator*® assessment

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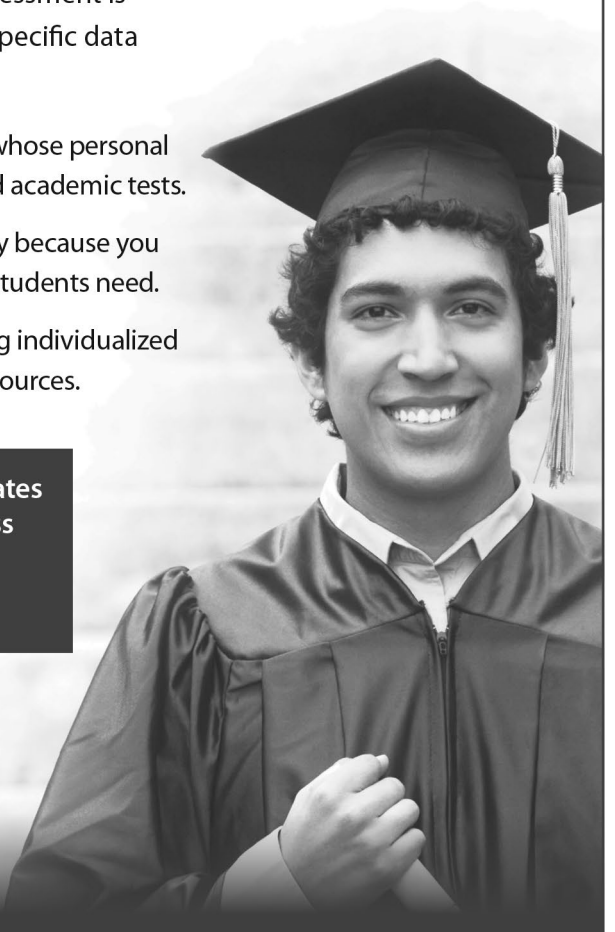
- ✓ Easily identify and reach at-risk students whose personal challenges go unreported in standardized academic tests.
- ✓ Prioritize your resources more strategically because you have a complete understanding of what students need.
- ✓ Effectively guide students to success using individualized reports with detailed action plans and resources.

Improve retention and completion rates as early as your next incoming class

VISIT US AT BOOTH 301 TO LEARN HOW



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MONDAY
NOVEMBER 7, 2016

✯ 7:00 AM - 5:00 PM
REGISTRATION

Grand Ballroom Foyer, Level 5

✯ 8:00 - 9:00 AM

SPECIAL SESSION

Learning Analytics

Fail Fast to Succeed

Franklin 2, Level 4

Lone Star College will share how using student success data to take action—measuring impact quickly, accurately, and honestly—is key to preventing initiative fatigue from spiraling into exhaustion. Some initiatives worked and others fell flat.

Michael Chavez, Vice President, Student Success; Deirdre Hayes-Cootz, Director, DEDP Grant; Juan Lebron, Counselor, Math, Lone Star College System, TX

FORUMS

Learning Analytics

Online Science Courses Without Sacrificing the Hands-On Component

415, Level 4

In this session, participants will actively take part in hands-on lab investigations developed for online science courses. These investigations have been designed for the off-campus setting while maintaining college-level rigor.

Matthew Steadman, Specialist, Distance Learning, Carolina Biological Supply, NC

Using Analytics to Recruit, Retain, and Transition Students

Solving Two Common E-Learning Problems: Student Retention and Proctoring Process Management

409, Level 4

E-learning leaders and faculty will learn how to boost retention by measuring noncognitive indicators of success, and how to better manage the proctoring process.

Julie Owen, Chief Sales and Marketing Officer, SmarterServices, AL

Advances in E-Learning

Academic Coaching: Strategies for Improving Student Success in E-Learning

408, Level 4

In this session, faculty and administrators experience coaching as a powerful human architecture to enhance online learning. Through demonstrations and activities, participants explore strategies for integrating coaching into online learning environments.

Maureen Breeze, Senior Vice President, LifeBound, CO

Using Snagit to Communicate Quickly and Effectively in the Classroom

412, Level 4

Learn how you can use TechSmith's Snagit to communicate more effectively with students and colleagues. We will explore a few real-world examples, and demonstrate some workflows that you can apply right away.

Ryan Eash, Manager, Customer Success, TechSmith, MI

The Internet of Things: New Cybersecurity Frontier

414, Level 4

The Internet of Things (IoT) is a technology phenomenon comprised of over a billion smart, interconnected sensors that gives unexplored access to everything. This presentation explores some opportunities and threats in the IoT world.

Daniel Benjamin, Dean, STEM; Chuck Pfeifer, Associate Vice President, Educational Partnerships, American Public University System, WV

Mathematics, Engineering, and Architecture

Engineering Design and 3D Printing Camp for Secondary Students

410, Level 4

Secondary students experimented with 3D printing technology and parametric modeling software at an Ivy Tech camp. Students engaged in design challenges, learned technical skills, and heard from industry leaders using 3D printing and scanning.

Geoff Knowles, Executive Director, Crawfordsville Campus, Ivy Tech Community College, IN

Health and Science

How to Use Simulation Technology in an Educationally Sound Way

411, Level 4

Is medical simulation equipment on your campus creating outcomes that enhance student learning? This presentation is designed for administrators and faculty to walk away with practical interactive ideas using simulation technology that improves clinical preparedness.

Terry Kinzel, Director; Andrea Elliott, Director, SIM Tech; Jennifer deLeon, Activity Coordinator, Title V, Big Bend Community College, WA

✯ 8:00 - 9:00 AM [continued]

Innovative Active Learning Techniques That Encourage Engaging, Authentic Student Inquiry

413, Level 4

Presenters will host a dialogue about innovative ways in which faculty use active learning techniques, course-based research experiences, and project-based learning to encourage engaging, authentic inquiry by students throughout the science curriculum.

Peter Williams, Dean, STEM; Amanda Crochet, Professor, Chemistry, Clark College, WA; Josephine Pino, Faculty, Bioscience Technology, Portland Community College, OR

Retention Programming for Minority STEM Students at Community College of Philadelphia

407, Level 4

Learn how federal grant dollars, analytics, and faculty and administrative supports were leveraged to increase retention of African-American and Latino STEM students. Faculty and administrators will benefit from this interactive session.

Linda Powell, Professor and Department Head, Biology, Community College of Philadelphia, PA

ROUNDTABLE DISCUSSIONS

All Roundtable Discussions take place in Franklin 1, Level 4.

Learning Analytics

Improving Student Learning Outcomes Through Data Analytics

Success involves the collection and analysis of data. A wide variety of sources can improve outcomes through a continuous improvement cycle. Faculty, designers, and administrators will learn how to drive change through data analysis.

Constance St. Germain, Executive Dean, Humanities and Sciences; Ruth Veloria, Executive Dean, Business, University of Phoenix, AZ

Advanced Technology Systems and Learning Management Architecture

Discussion of the NSF Advanced Technological Education Program

The Advanced Technological Education program at the National Science Foundation focuses on technician education for high-technology fields in STEM. A Program Officer will discuss the program and answer questions from attendees regarding potential proposals.

Thomas Higgins, Program Officer, Division of Undergraduate Education, National Science Foundation, VA

Using Analytics to Recruit, Retain, and Transition Students

Preparing and Retaining Students in STEM Gateway Courses

Discuss how Supplemental Instruction and pre-semester sessions help underprepared students in challenging STEM gateway courses.

David Burger, Instructor, Mathematics; Dennis Reer, Director, STEM; Gonzalo Perez, Executive Assistant to the President; Anjali Thanawala, Coordinator, STEM, Passaic County Community College, NJ

Health and Science

Using 3D Print Technology in the Mortuary Sciences

Participants from any discipline will enjoy learning how one instructor's research with 3D technology helped overcome a common impediment to restorative art, and will be challenged to consider its use in their own domain.

Jeff Caldwell, Professor, Funeral Service Education, Humber College Institute of Technology and Advanced Learning, ON, Canada

When Greening Meets Liberal Arts: A Socratic Approach

Brookdale's The Innovation Network (TIN) projects give education a refreshing new feel. Students find engaging in multidisciplinary project teams to solve real problems a better way of learning, which has a positive effect on retention and completion rates.

Tom Berke, Professor, Chemistry; Katherine Edward, Director, Assessment; Deborah Mura, Professor, Journalism; Juliette Goulet, Professor, Environmental Science; Lana Leonard, Team Leader, The Innovation Network, Brookdale Community College, NJ

✯ 9:15 - 10:15 AM

INNOVATION ISTREAM

SPECIAL SESSION

Manufacturing, Energy, Aerospace, and Agriculture

Engaging Industry in Your Programs

Franklin 2, Level 4

Learn how San Jacinto College used the development of a new Center for Petrochemical, Energy, and Technology to deepen industry partnerships. Share what's working at your college.

Allatia Harris, Vice Chancellor, Strategic Initiatives, San Jacinto College District, TX; Jeffrey Parks, Dean, Industrial and Applied Technology; Van Wigginton, Provost, San Jacinto College - Central Campus, TX; Randall Boeding, Independent Consultant, R. Boeding Group, LLC, TX

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✯ 9:15 - 10:15 AM [continued]

FORUMS

Advanced Technology Systems and Learning Management Architecture

The Essentials of Building a Successful Community of Practice

412, Level 4

A National NSF Center that leads a community of practice of 50+ colleges and universities will show attendees five best practices for growing and managing engaged groups.

Ann Beheler, Principal Investigator, Emerging Technology Grants, Collin College, TX

Using Analytics to Recruit, Retain, and Transition Students

STEM: Preparing for the College and Career Transition

413, Level 4

In 2016, ACT Student Score Reports will include a STEM benchmark for the first time. Please join the discussion as we critique the impact of the benchmark on student awareness and preparation.

Kristie Fisher, Assistant Vice President, Client Relations, ACT, Inc., IA

Fostering Curiosity and Discovery in Chemistry and Biology Laboratories

415, Level 4

Experience how two community college science faculty members enhanced the laboratory experiences of students enrolled in Principles of Chemistry and Principles of Biology. Both courses are entry level courses for non-STEM majors.

Noel Gardner, Instructor, Chemistry, and Chair, Natural Science; Stephanie Burks, Instructor, Biology, Hinds Community College, MS

Creating an Online Orientation That Speaks to Students

407, Level 4

Your campus has worked hard to offer classes and programs at flexible times. Why shouldn't your orientation do the same? This session will walk participants through Go2Orientation—an online orientation solution.

Valerie Kisiel, CEO, Innovative Educators, CO

Integration of STEM and the Liberal Arts

STEM Meets the Liberal Arts: Creating Community Through Service Learning

409, Level 4

Brainstorm creative ways to collaborate with faculty across liberal arts and STEM disciplines to create projects for Sinclair students that foster a passion for learning about and serving the community.

Jacqueline Housel, Associate Professor, Geography; Adrienne Cassel, Professor, English, Sinclair Community College, OH

Integrate Reading, Writing, and the Arts Into STEM Education

410, Level 4

Students traditionally consider the mandatory general education science course as a major hurdle in their education. Participants will explore how interactive notebooks seamlessly integrate reading and writing into a course on physics in the arts.

Martina Bachlechner, Professor, Business Aviation and Technology, Pierpont Community and Technical College, WV

Health and Science

Baccalaureate Education at the Community College: Creating Dual Admission Partnerships

414, Level 4

Learn how community college and university nursing programs collaborated to create a seamless dual admission baccalaureate program to meet workforce needs. Discover a process to replicate on your campus and within your discipline.

Jennifer Eccles, Director, Nursing, Century College, MN

How to Build Your Very Own Biomedical Equipment Technology Program

411, Level 4

"One of the 5 best jobs you've never heard of" is how *Money Magazine* described Biomedical Equipment Technology. Learn about the field and program. Join the discussion about recruitment, mentoring, and supporting industry instructors.

Randy Libros, Associate Professor, Electronics Engineering Technology; Tammy Wooten, Chair, Chemistry; Mozhgan Bahadory, Adjunct Professor, Chemistry, Community College of Philadelphia, PA

ROUNDTABLE DISCUSSIONS

All Roundtable Discussions take place in Franklin 1, Level 4.

Advanced Technology Systems and Learning Management Architecture

Simulation Software as a Prime Motivator for STEM Engagement

CANCELLED

Participants will discuss and share experiences related to various types of simulation applications in order to baseline how these tools impact STEM outcomes and engagement.

Ken Scott, Senior Instructor, CIS, H. Councill Trenholm State Community College, AL

Using Analytics to Recruit, Retain, and Transition Students

Strategies to Success: STEM Scholarship Programs for All Levels

Discuss the effectiveness of the Believe in Ohio program at the high school, the Choose Ohio First program at the two-year college, and the Bridges to Success program at the four-year college level.

Geza Varhegyi, Assistant Professor; Ormond Brathwaite, Associate Dean, STEM, Cuyahoga Community College - Western Campus, OH

Mathematics, Engineering, and Architecture

Integrating Fundamental Mathematics Principles Into an Engineering Technology Course

This session examines how a mathematics course in the engineering technology (ET) department at a community college integrated fundamental mathematics principles into a credit-bearing introductory ET mathematics course.

Tara Donahue, Managing Evaluator, McREL International, CO

Health and Science

Integrating Technology Skills Into Healthcare Career Training

Discuss how LaGuardia Community College engages employer partners to create technology skills inventories and integrates these skills into healthcare training. Participants share experiences integrating technology into the classroom and brainstorm how to overcome challenges.

Kimberly Kendall, Executive Director, Adult and Continuing Education; Chandana Mahadeswaraswamy, Director, Career and Professional Programs, LaGuardia Community College - CUNY, NY

✯ 10:30 - 11:30 AM

iSTREAM

SPECIAL SESSION

Health and Science

Science Departments and Technology Companies: Successful Academic-Industry Partnerships

Franklin 2, Level 4

A faculty member at the Community College of Philadelphia and a biotechnology CEO will discuss outcomes of their academic-industry partnership and provide advice for establishing and maintaining these relationships.

Kristy McGuire, Associate Professor, Biology, Community College of Philadelphia, PA; Nicholas Siciliano, Co-Founder and CEO, Invisible Sentinel, PA

FORUMS

Learning Analytics

Creating Faculty Personas for a Variety of Survey Analysis Measurements

408, Level 4

Segmenting faculty or students into personas allows for learning organizations to effectively discover what these customers believe is needed to engage them in the most memorable customer experience, thus leading to educational advocates. Participants are encouraged to bring their laptops.

Erik Bean, Research Fellow, Advanced Studies, University of Phoenix, MI

Expanding Opportunity for All: How Can We Increase Community College Student Completion?

410, Level 4

Learn how a Choicework tool developed by Public Agenda for the League for Innovation's Faculty Voices Project can be used on your campus to engage faculty—and others—in important conversations about student success and completion, and how the talk can lead to meaningful action to improve student retention and completion at your institution.

Arleen Arnsparger, Consultant, Arnsparger Consulting, CO; Allatia Harris, Vice Chancellor, San Jacinto College District, TX; Cynthia Wilson, Vice President, Learning and Research, League for Innovation in the Community College, AZ

Advanced Technology Systems and Learning Management Architecture

Virtual Campus Project: A Wayfinding and Visualization System for Campuses

413, Level 4

The Institute for New Media Studies worked with St. Cloud Technical and Community College to create an interactive, virtual, reality-based navigation system for college campuses that is engaging and entertaining in productive ways.

Gordon Carlson, Director, Institute for New Media Studies, Fort Hays State University, KS; Joyce Helens, President; Viola Bergquist, CIO, St. Cloud Technical and Community College, MN

Advances in E-Learning

Create Instructional Videos With Camtasia in 3, 2, 1

412, Level 4

Get started creating instructional videos for your students. We will walk through a sample Camtasia video project from start to finish, and discuss best use cases for utilizing video in the classroom.

Ryan Eash, Manager, Customer Success, TechSmith, MI

✯ 10:30 - 11:30 AM [continued]

It Works: Leveraging Adaptive Learning Technology to Drive Student Success

411, Level 4

Discover how adaptive learning is utilized to drive student success in a science course. Discuss how adaptive learning can be used to increase students' self-efficacy in a science course.

Christina Garcia, Program Administrator, General Education and Psychology; Sylvia Nemmers, Lead Faculty, Sciences, Colorado Technical University, IL

Developing Possibilities in a Correctional Environment

414, Level 4

Learn how Sinclair Community College overcomes institutional obstacles such as lack of internet connectivity to create an atmosphere in which students use technology to enhance learning and prepare for release.

Cheryl Taylor, Coordinator, Advanced Job Training; Kevin Bryan, Supervisor, SCI Site, Criminal Justice Sciences, Sinclair Community College, OH

Providing Professional Development 24/7: Restructuring How We Deliver Training

407, Level 4

It's time to do more with less. Learn innovative and cost-effective strategies that will help your department provide ongoing professional development anytime, anywhere.

Erica Kennon, Associate Director, External Relations, Innovative Educators, CO

Health and Science

Developing a Great Program: Planning Your Ideal Allied Health Facility

409, Level 4

Explore the elements to building an ideal facility, from programming through design. Participants will work together to develop the program for a facility and, then, see the result of the planning and design process.

Michele Pollio, Senior Lab Planner and Associate, HERA Laboratory Planners, MO; Deborah Hardy, Associate Provost and Dean, Health Technologies, Lakeland Community College, OH; Allison Edmonds, Lab Planner, Architecture, HERA Laboratory Planners, PA

Build a Strong Lymphatic System With Anatomy in Clay

415, Level 4

Using a living skeletal model, students gain knowledge of the lymphatic system and breast cancer awareness by visually, and kinesthetically, building these systems with clay. Build stronger anatomy students with STEM practices.

Teri Fleming, Educator, Life Sciences, Anatomy in Clay Learning System, CO

ROUNDTABLE DISCUSSIONS

All Roundtable Discussions take place in Franklin 1, Level 4.

Advances in E-Learning

To the LMS and Beyond: Library Instruction in Online Classrooms

As online classes increase, what is the role of library instruction? How can libraries reach students who may never visit campus? This discussion will cover current strategies, invite other ideas, and examine potential challenges.

Diana Matthews, Associate Professor and Librarian; Scott Tarbox, Professor and Librarian, Santa Fe College, FL

Mathematics, Engineering, and Architecture

Teaching Software Engineering Using Data Science

Involve students hands-on in big data from available public datasets and the Internet of Things. Using relational and noSQL databases, along with Python, R, and statistics, help your students increase skills and marketability.

Gerald Reed, Professor, Computer Programming, Valencia College, FL

Integration of STEM and the Liberal Arts

Career Research Project Combines Technical Skills With Liberal Arts

Add purposeful writing to a STEM course. Students research STEM careers and evaluate alternatives using an IT tool. Our research paper assignment stresses effective Internet searches, personal productivity tools, and using an evaluation matrix.

Sally Sullivan, Professor, CIS, Prince George's Community College, MD

Health and Science

Launching the Queensborough Public Health Program for the 21st Century

Responding to the booming public health sector and the growing need for trained professionals, we present the launch of the Queensborough Public Health Program. This session discusses the program design, development, and implementation processes.

Anuradha Srivastava, Assistant Professor, Biological Sciences and Geology; Andrea Salis, Assistant Professor, Health, Physical Education, and Dance, Queensborough Community College - CUNY, NY

✯ 11:30 AM - 1:00 PM

COFFEE AND REFRESHMENT BREAK

Franklin Hall B, Level 4
Sponsored by Walden University
A higher degree. A higher purpose.

✯ 1:15 - 2:15 PM

SPECIAL SESSION

Advanced Technology Systems and Learning Management Architecture

Best Practices to Maximize Your Business Relationships and Benefit Students
Franklin 2, Level 4
Give students an edge in qualifying for jobs by developing an actively engaged group of business partners and maximizing those relationships through trends discussions, skills validations, virtual internships, and student mentoring.
Ann Beheler, Principal Investigator, Emerging Technology Grants, Collin College, TX

FORUMS

Learning Analytics

Better Than Natives: Powerful and Successful College Transfer
408, Level 4
The presentation will describe how our community college students within and outside of the university partnership are outperforming native students. Measures include GPA, persistence, and graduation. Discussion will focus on scalability.
John Crooks, Associate Provost, University Partnership, Lorain County Community College, OH

Using Analytics to Recruit, Retain, and Transition Students

STEM GiRLS: Inspiring the Next Generation
413, Level 4
Join a discussion about the low representation of females in STEM fields, an event designed to inspire local girls to pursue STEM careers using fun and educational workshops, and a practical guide to starting your own.
Andrew Wright, Assistant Professor, Mathematics; Abreeotta Williams, Assistant Professor, Biology, Columbia State Community College, TN

Advances in E-Learning

Online Teaching: The Nuts and Bolts
414, Level 4
Online delivery is used in middle schools through graduate programs. Why are some programs successful and others not? This session focuses on online postsecondary education and nuts and bolts from development to delivery.
Steve Canipe, Program Director, The Richard W. Riley College of Education and Leadership, Walden University, MN

A Hybrid Flipped Classroom With Advanced Communications
410, Level 4
Video lecture has become cost effective and can be adapted to increase the success rate of students. Through the use of WebEX conferencing, students have the access to the instructor that is so desired.
Debbie Lozano, Professor, Engineering, Lakeland Community College, OH

Advancements in Rubric Creation for Online Courses
411, Level 4
The cubric model for rubric creation blends three levels of Bloom's taxonomy with dynamic metacriteria content. The result is a three-dimensional rubric model that is easy to use.
Andrew Hurd, Director, Faculty Program, Cybersecurity; Michael Johnson, Interim Associate Dean, Technology, Excelsior College, NY

Manufacturing, Energy, Aerospace, and Agriculture

Changing Manufacturing and Welding Perceptions at Northeast Wisconsin Technical College
415, Level 4
The NSF ATE Welding: Wisconsin's Ultimate Rural STEM Pathway project is improving perceptions through high school articulation, industry tours, contextualized math curriculum, and instructor training. Be ready for a math activity and interactive video.
Rachel Johnson, Instructor, Mathematics, Northeast Wisconsin Technical College, WI

Integration of STEM and the Liberal Arts

STEM Goes to Brazil and London
409, Level 4
Learn how you can develop engaging study abroad programs in the STEM fields. This session will show how technology can be utilized to enhance learning abroad. Bring your smartphone.
Heith Hennel, Professor, IT, Valencia College, FL

✯ 1:15 - 2:15 PM [continued]

Guided Learning Pathways in Evidence-Based Thinking and Public Health

412, Level 4

Developing articulated Guided Learning Pathways that link associate's and bachelor's degrees can ease transfer and time to completion for students. Presenters will lead a discussion of methods for linking community college and bachelor's degree programs, and will use the AAC&U STIRS Project focus on evidence-based thinking and the League for Innovation's Community Colleges and Public Health Project as examples.

Richard Riegelman, Professor and Founding Dean, Milken Institute School of Public Health, The George Washington University, DC; Jennifer Stanford, Assistant Professor, Biology, and Co-Director, Center for the Advancement of STEM Teaching and Learning Excellence, Drexel University, PA; Amy Jessen-Marshall, Vice President, Integrative Liberal Learning and the Global Commons, Association of American Colleges and Universities, DC

Health and Science

Creating Future Scientists Using Independent High School Research

407, Level 4

For the past several years, the presenter has worked with several local schools to promote high school research. This project has recently expanded, and some creative solutions to managing a similar effort will be discussed.

Elizabeth Boedeker, Senior Research Scientist, Center for Plant and Life Sciences, St. Louis Community College, MO

ROUNDTABLE DISCUSSIONS

All Roundtable Discussions take place in Franklin 1, Level 4.

Advances in E-Learning

Team-Based Course Design: Increasing Resource Utilization and Collaboration

Team-based course design draws on experts from the classroom and academic support services in a collaborative effort to develop courses. This session offers practical steps to implement this practice and time to discuss.

Mia Ocean, Assistant Professor, Graduate Social Work, West Chester University, PA

Integration of STEM and the Liberal Arts

Predictive Measures and Real-Time Interventions for Nursing Chemistry Students

Transitioning from a traditional classroom meeting followed by a stand-alone laboratory experience into an integrated experience course is discussed for health science students.

Neville Forlemu, Assistant Professor, Chemistry, Georgia Gwinnett College, GA

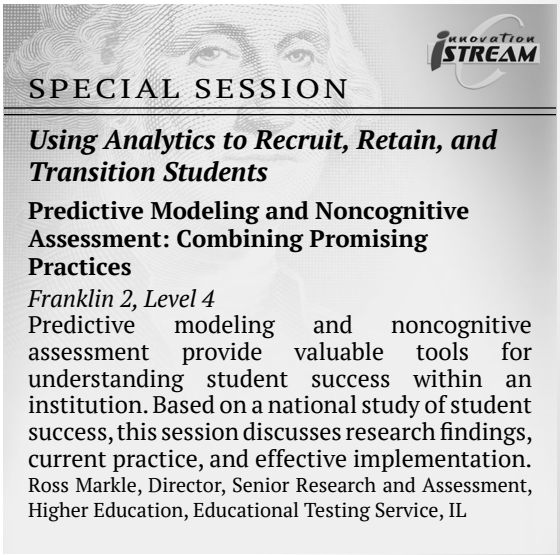
Health and Science

Utilizing Circles of Influence to Increase Program Success

Networking is an essential component for program growth, development, and funding. Discussion will focus on coaching participants to diagram circles of influence, recruit missing partnerships, and verbalize program needs, with an emphasis on healthcare programs.

Terry Kinzel, Director; Andrea Elliott, Director, SIM Tech; Jennifer deLeon, Activity Coordinator, Title V, Big Bend Community College, WA

✯ 2:30 - 3:30 PM



SPECIAL SESSION

Using Analytics to Recruit, Retain, and Transition Students

Predictive Modeling and Noncognitive Assessment: Combining Promising Practices

Franklin 2, Level 4

Predictive modeling and noncognitive assessment provide valuable tools for understanding student success within an institution. Based on a national study of student success, this session discusses research findings, current practice, and effective implementation.

Ross Markle, Director, Senior Research and Assessment, Higher Education, Educational Testing Service, IL

FORUMS

Advanced Technology Systems and Learning Management Architecture

The Power of Systems: Curriculum Management Software That Respects Us

409, Level 4

Systems are inflexible. They hate exceptions to process. People, on the other hand, like exceptions and thrive on shortcuts. Our homegrown curriculum management system tries to make peace between process and people.

Eric Daeuber, Instructor, Humanities; Casey Jensen, Web and Application Developer, Minnesota State Community and Technical College, MN

Using Analytics to Recruit, Retain, and Transition Students

Designing and Implementing an Enrollment Analysis Reporting System That Works

413, Level 4

Do your faculty determine class scheduling based on their convenience? Enrollment analysis reports provide chairs and campus administrators with relevant data so that informed decisions are made to meet the needs of students.

Ann Tate, Dean, Liberal Arts; Brenda Jones, Provost; Kevin Morris, Dean, Business and Technology; Alexander Okwonna, Dean, Natural and Health Sciences, San Jacinto College - South Campus, TX

Associate's or Bachelor's? Long-Term Follow-Up of STEM Students

408, Level 4

Follow a diverse group of community college STEM students as they earn associate's and bachelor's degrees. How long did it take them to obtain bachelor's degrees? How do gender, race, ethnicity, and initial math placement affect outcomes?

Sylvia Sorkin, Professor, Mathematics, Community College of Baltimore County, MD

High Impact Practices to Help STEM Students Succeed

412, Level 4

Using an action plan, biology faculty at SCTCC worked together to boost student learning, success, and retention in biology courses. Learn about key strategies, implementation, and tools to increase student success in STEM courses.

Mark Gucinski, Instructor; Jennifer Evens, Faculty; Chistopher Sorenson, Faculty; Tarryl Clark, Dean, Sciences, Technology, and Math, St. Cloud Technical and Community College, MN

Advances in E-Learning

Online Science, Technology, and Engineering Laboratories: Opportunities and Challenges

414, Level 4

This presentation explores challenges, opportunities, inquiry-based learning, student learning, and student engagement as they apply to online labs. It also highlights brain theory and various technologies that validate online labs.

Daniel Benjamin, Dean, STEM; Francesca Catalano, Associate Dean, Math, Science, and Engineering, Kankakee Community College, IL; Chuck Pfeifer, Associate Vice President, Educational Partnerships, American Public University System, WV

Using EducoSoft LMS to Promote Students' Mathematical Achievement

411, Level 4

In this general interest session, participants will be introduced to the EducoSoft LMS platform and see how it can be integrated into the classroom to help promote students' academic achievement in mathematics.

Mark Shand, Instructor, STEM, Excelsior Community College, Jamaica

Integration of STEM and the Liberal Arts

Using History to Enhance STEM Learning

407, Level 4

History helps bring things alive in the STEM world by connecting what has happened with the people who made it happen, and continue to make it happen.

Kurt Messick, Professor, Ivy Tech Community College, IN

Health and Science

Mind Trekkers: College Students Get Sixth Graders Excited About STEM

410, Level 4

Michigan Tech and San Jacinto College students host a STEM carnival for 6,000 sixth graders. Industry partners also pitch in. Let's talk about our next generation of scientists and share your outreach successes, too.

Allatia Harris, Vice Chancellor, Strategic Initiatives, San Jacinto College District, TX; Ludith Gonzalez, Project Director, Strategic Initiatives, San Jacinto College - North Campus, TX; Cody Kangas, Assistant Director, Center for Pre-College Outreach, Michigan Technological University, MI; Mayra Cochran, Leader, M&E Learning and ODMS, Houston Area Operations, The Dow Chemical Company, TX

New- and Old-School Technologies Engage Students in Anatomy Laboratories

415, Level 4

The opening of new laboratory space has launched the development of numerous approaches to engaging students. Come explore some of the technology being utilized in the lab, and hear about design elements that are engaging students.

Geoffrey Collins, Bioscience Technician, Hospitality, Recreation, and Tourism, Humber College Institute of Technology and Advanced Learning, ON, Canada

ROUNDTABLE DISCUSSIONS

All Roundtable Discussions take place in Franklin 1, Level 4.

Advanced Technology Systems and Learning Management Architecture

Who Benefits From New Technology?

Participants will discuss advantages and disadvantages of community college tech systems. From admission, registration, and records to curriculum development, teaching, and learning, it is asked: Who benefits? How are benefits measured?

Katherine Watson, Professor, Distance Learning, Coastline Community College, CA

✯ 2:30 - 3:30 PM [continued]

Advances in E-Learning

Leveraging Metacognition in an Online Programming Course

Proper planning prevents poor performance. Learn and share ideas for using and evaluating student self-directed, metacognitive interventions to increase quality and timeliness of project code submissions via your LMS.

Gerald Reed, Professor, Computer Programming, Valencia College, FL

Integration of STEM and the Liberal Arts

New Models for Developing English Skills for Student Success

STEM learners can be unprepared for college-level reading and writing. Let's discuss how digital resources can support new models for review that help retain student motivation while accelerating a path to career goals.

Terri Rowenhorst, Director, Member Services, The NROC Project, CA

Health and Science

Solidifying Nursing 101 Students' Research Skills Before Clinical Assignments

Queensborough prepares its 100 new nursing students each semester for clinicals. Participants will complete a chart specifying the best databases for searching information on diagnosis, treatment, systematic reviews, and clinical trials. The session will benefit faculty and librarians.

Constance Williams, Associate Professor, Library, Queensborough Community College - CUNY, NY

✯ 3:45 - 4:45 PM

SPECIAL SESSION

Integration of STEM and the Liberal Arts

STEM-Humanities Partnerships to Foster Responsible and Global Thinking

Franklin 2, Level 4

Montgomery College's Global Humanities Institute (GHI) explores compelling global issues through integrated STEM-humanities curricula. This session presents GHI learning communities that explore the intricacies and practice of science within economic, political, and cultural contexts.

Marcia Bronstein, Professor and Leadership, Global Humanities Institute; Marianne Szlyk, Professor, English; Carol Moore, Instructional Designer, Montgomery College, MD

FORUMS

Using Analytics to Recruit, Retain, and Transition Students

Designing Rural Community College Pre-College Summer STEM Programs

412, Level 4

Community college faculty in rural areas will explore ways to broaden participation of underrepresented and underserved minorities in STEM areas by designing summer STEM opportunities for high school juniors and seniors, and entering community college freshmen.

Mitchell Shears, Academic Dean; Noel Gardner, Instructor, Chemistry, and Chair, Natural Science; Willie Perkins Jr., Instructor, Natural Science; Jonathan Townes, Project Coordinator, STEM; Debra Mays-Jackson, Vice President, Utica Campus, Hinds Community College, MS

How the Data Brought Us Together

415, Level 4

This session reveals Lone Star College's strategy to uncover predictive insights around the persistence probability of math repeaters and stack hands with math faculty to find students who are most at risk.

Michael Chavez, Vice President, Student Success; Juan Lebron, Counselor, Math, Lone Star College System, TX

Advances in E-Learning

Implementing Digital Tools and Adaptive Learning to Teach the Sciences

408, Level 4

The digital learning technology available today can overwhelm instructors. Come see how it can be organized in a way that's easy for instructors and students to use, and fosters student success.

Steve Sullivan, Associate Professor, Mathematics, Science, and Technology, Bucks County Community College, PA

The Double Flip: Transitioning From Flipped Class to Hybrid Instruction

411, Level 4

Attendees experience the transformation of traditional teaching and learning into flipped-class strategies, and then into hybrid teaching. Presenters share technologies, activities, assessments, and data. Participants map the transition from F2F to flipped to hybrid teaching.

Karen Hattaway, Distinguished Professor; Kim Miller-Davis, Professor; Jon Nelson, Professor, English, San Jacinto College - North Campus, TX

COMMUNITY COLLEGE TRIVIA

- Do all American community colleges offer open enrollment, meaning anyone with a high school diploma or GED can enroll?
- What was the first community college established in the U.S.?
- What is the largest community college in the U.S., boasting an enrollment of 174,000 students?
- Rather than grouping majors into departments or schools, Houston Community College is organized into what?
- For answers, please visit: www.InnovativeEducators.org

Number & Types of Colleges

986 | Public
115 | Independent
31 | Tribal

1,132 Total number of community colleges

38%
62%

Only 38% of students want to learn with traditional lectures. The remaining 62% want variety and flexibility in how they learn.

Degrees & Certificates Awarded (2013-2014)

795,235 Associate degrees

494,995 Certificates

809 BILLION

in income was added to the U.S. economy in 2012 by America's community colleges & their students

-11%

Newest study finds students are 11% less likely to pass an online version of the same class.

60%

According to the Lumina Foundation, 60% of jobs will require some kind of degree or certificate by the year 2025. Of those 8 million students, community colleges will be expected to educate 5 million of them. Now, more than ever, it is up to community colleges to share their story.

87%

87 percent of students say that better time management & organization skills would help them get better grades.

47%

47 percent of college students feel their high school did not "teach them the organizational skills required to do well in college."

30%

30 percent of college & university students drop out after their first year.

88%

88 percent of college students want to improve their ability to manage their time.

39%

Approximately 39% of students who enter the country's most accessible postsecondary institutions graduate within six years.

1/4

A quarter of community college students who enroll in the fall don't come back in the spring.

How do we help community college students succeed?

visit

www.StudentLingo.com/freetrial

For source information please visit: https://www.innovativeeducators.org/SearchResults.asp?Cat=246

✯ 3:45 - 4:45 PM [continued]

CCC and OSB Implement Courses Using HoloLens Mixed Reality Technology

410, Level 4

As a result of a Microsoft grant to develop curriculum using HoloLens mixed reality technology, Clackamas Community College student teams created an interactive 3D model of an automotive transmission at Oregon Story Board's custom computer lab.

Shelley Midthun, Executive Director, Oregon Story Board, OR; Thomas Wester, Instructor, HoloLens, Clackamas Community College, OR

Mathematics, Engineering, and Architecture

Community College-University Collaborative Capstone and Service Learning

413, Level 4

A Sinclair Community College and University of Dayton collaborative capstone leverages unique STEM expertise to benefit a greater number of students and the community. Learn how to implement similar inter-institutional, interdisciplinary projects.

Charles Setterfield, Associate Professor, Civil Architectural Technology; Patrick Ernst, Assistant Professor, Engineering Technology Design, Sinclair Community College, OH

Quant-Statway: Using Quantitative Reasoning as a Prerequisite for Statistics

409, Level 4

Learn how we created a quantitative reasoning to statistics pathway that features vertical alignment, integration of Excel, and active and collaborative learning strategies.

Steven Richardson, Instructor; Sandra Morrissey, Instructor, Mathematics, York Technical College, SC

Integration of STEM and the Liberal Arts

STEM to STEAM: Where Is the Smoke?

414, Level 4

Everyone has heard the buzz about integrating the arts into STEM. Have you wondered about the buzz? Examine the parameters and the rationale for inclusion of the arts in a scientific or technological arena.

Steve Canipe, Program Director, The Richard W. Riley College of Education and Leadership, Walden University, MN

Integrate STEM: A Context for Developing the STEM Talent Pipeline

407, Level 4

Through hands-on, minds-on activities, explore how research is used to enhance STEM curriculum and instruction, and raise students' confidence in learning employability skills and their desire to pursue STEM careers.

Anne Seifert, Manager, K-12 STEM, Idaho National Laboratory, ID

ROUNDTABLE DISCUSSIONS

All Roundtable Discussions take place in Franklin 1, Level 4.

Advances in E-Learning

Rubrication Meets Education: A Four-Point Rubric to Click

Participants will discover three rubric types, how Coastline Community College has created a self-assessment rubric to define regular substantive interaction for distance learning, and how to create rubrics for academic quality assessment online.

Katherine Watson, Professor, Distance Learning, Coastline Community College, CA

Mathematics, Engineering, and Architecture

Outreach Activity: Build a Roller Coaster Focusing on Civil Engineering

Explore a great hands-on activity employing principles of civil engineering and cost effectiveness for use in outreach events within the STEM pipeline. Activity variations and customization for different age groups will be discussed.

Nathalie Darden, Assistant, Math, Brookdale Community College, NJ

Integration of STEM and the Liberal Arts

Microcontroller-Based Tools for Artists and Artisans

Learn how software development students using Arduino and Raspberry Pi can team with community makers to enhance learning and skill acquisition in the fiber arts. Examples include spinning materials for e-textiles.

Gerald Reed, Professor, Computer Programming, Valencia College, FL

Health and Science

Building a Lab 101: Design a Lab With Us

We will design a lab using a physical model and the experience of participants. We do this activity with clients to provide an easy way for faculty to understand what their lab can be.

Michele Pollio, Senior Lab Planner and Associate; Allison Edmonds, Lab Planner, Architecture, HERA Laboratory Planners, MO

✯ 4:45 - 6:30 PM

RECEPTION

Franklin Hall B, Level 4

Setting the standard with question-based coaching for STEM/STEAM faculty and students

LifeBound

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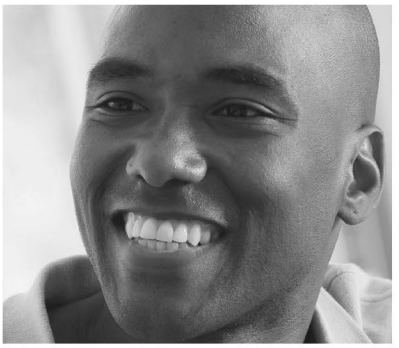
BE accountable

in college



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At Walden, a National Council for Accreditation of Teacher Education (NCATE)–accredited institution, we share your commitment to STEM education and preparing students for the future. In The Richard W. Riley College of Education and Leadership, educators at all levels share best practices to improve student outcomes in science, technology, engineering, and math.

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- Explore innovative teaching methods designed to help students succeed.
- Participate in a highly sophisticated learning environment that includes mobile technology for on-the-go learning and options to tailor learning to your schedule.

Visit us at Booth 412 and talk with a representative to learn more about Walden.

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WALDEN UNIVERSITY

Walden University is accredited by the National Council for Accreditation of Teacher Education (NCATE). This accreditation covers initial teacher preparation programs and advanced educator preparation programs. As a recognized standard of excellence in professional education for the preparation of teachers, administrators, and other preK–12 school professionals, NCATE accreditation ensures that the institution has met rigorous national standards set by the profession and members of the public. However, the accreditation does not include individual education courses offered to preK–12 educators for professional development, relicensure, or other purposes.

TUESDAY
NOVEMBER 8, 2016

✯ 7:00 AM - 5:00 PM
REGISTRATION

Grand Ballroom Foyer, Level 5

✯ 8:00 - 9:00 AM

SPECIAL SESSION

Using Analytics to Recruit, Retain, and Transition Students

Creating Paths to Middle-Skill STEM Fields

Franklin 2, Level 4

How are colleges retaining and transitioning students in middle-skill STEM fields? Presenters from Zane State College and Achieving the Dream will discuss how completion and transfer is driven by the guided pathways and iPASS initiatives.

Angel Clay, Associate Director, Pathways and Academic Alignment; Julia Lawton, Assistant Director, Data, Technology, and New College Experience, Achieving the Dream, MD

FORUMS

Learning Analytics

Utilizing Technology to Drive the Student Experience and Fuel Completion

412, Level 4

Come experience the One Record solution. This data integration system has been created with the sole purpose of improving the student experience and the goal of increasing student persistence and completion rates.

Kris Walz, Program Manager, One Door Initative, Cuyahoga Community College - Westshore Campus, OH; Standish Stewart, Deputy CIO, Cuyahoga Community College, OH

Advances in E-Learning

The Mobile Lab: Teaching Hands-On Science to Military Students

414, Level 4

This session provides faculty, administrators, and course designers examples of hands-on laboratory investigations and assessments that enable students who require asynchronous and mobile learning to experience an authentic, data-driven, science learning experience.

James Brinson, Assistant Professor, STEM, American Public University System, WV

Supporting Tutor Training 24/7 With Online Training Videos

411, Level 4

This session will explore online tutor training videos and resources focused on supporting the tutor training process 24/7. Innovative Educators partnered with the College Reading and Learning Association to produce these engaging videos based on Level 1 topics.

Kristen Seldon, Director, Institutional Relations, Innovative Educators, CO

Mathematics, Engineering, and Architecture

Ensuring Your Class Is Inviting to All Students

415, Level 4

You plan the perfect activity in class and it bombs. To increase female enrollment in our programs, we need to ensure that classrooms are inviting to all students. This forum will provide hands-on activities.

Pamela Silvers, Instructor and Principal Investigator, Computer Technologies; James Sullivan, Chair, Civil Engineering Technology, Asheville-Buncombe Technical Community College, NC

Digital Badges Encourage Attainment of Discrete Math Skills

410, Level 4

Digital badges provide a record of mastering specific skills, enhancing employability. Colorado Community College System and The NROC Project teamed to create a free technical math MOOC and began to issue digital badges for skill attainment.

Brenda Perea, Project Manager, Instructional Design; Katherine Woodmansee, Instructional Designer, Colorado Community College System, CO

✯ 8:00 - 9:00 AM [continued]

Integration of STEM and the Liberal Arts

They Write, They Learn: Engaging Multimodal Strategies in STEM

409, Level 4

By integrating a variety of digital practices, attendees create plans for multimodal writing assignments in STEM classes, transforming assignments into dynamic tasks, engaging students, and giving students practice integrating theoretical and conceptual ideas.

Sharon Burns, Associate Professor, English Languages and Fine Arts, UC Clermont College, OH; Katie Foran-Mulcahy, Director, Library, University of Cincinnati, OH

Vocabulary Shift

407, Level 4

Do educators help students make the shift from common, creative, and colloquial to literal, specific, and precise vocabulary usage in STEM courses, or is this shifting skill taken for granted?

Avery Austin, Adjunct Professor, Physics, Northern Virginia Community College, VA

Minecraft and the Humanities: Net Surfing in Composition

408, Level 4

Postsecondary education students are, indeed, savvy with the use of pocket computers. This session carries Minecraft into English composition, exploring the potential of virtual reality and how to further integrate this technology into the classroom.

Michael Torrence, Assistant Vice President, Academic Affairs, Volunteer State Community College, TN

Health and Science

Find the Spark! in STEM

413, Level 4

STLCC's Center for Plant and Life Sciences and Parkway Schools have partnered to create a unique learning experience for students exploring a career in the biosciences through real research.

Richard Norris, Director; Jennifer Hill, Coordinator; Elizabeth Boedeker, Senior Research Scientist, Center for Plant and Life Sciences, St. Louis Community College, MO; Meredith Jacques, Director, Spark! Bioscience, Parkway Schools, MO

POSTER SESSIONS

All Poster Sessions take place in Franklin Hall Prefunction.

Learning Analytics

Migrating Experiential Kernels for Student Engagement

Expanding on data garnered from work with special student cohorts, Capitol Technology University is blending technologies to develop a range of tools and techniques for enhancing student engagement within and across target segments.

Dianne O'Neill, Vice President, Enrollment and Student Services, Capitol Technology University, MD

Mathematics, Engineering, and Architecture

Graduating Engineers and Achieving Results in STEM

Union County College will be implementing a comprehensive engineering initiative—Graduating Engineers and Achieving Results in STEM (GEARS)—to graduate engineering students more quickly. College representatives will outline plans to promote success in STEM.

Nicole Cippoletti, Assistant Dean, STEM, Union County College, NJ

Integration of STEM and the Liberal Arts

Connecting With Oral Communication Faculty for Collaborative Learning Support

Collaborative learning engages students actively in class. This poster session shows how oral communication faculty and a campus speaking center can assist STEM faculty with collaborative learning strategies and student outcomes.

Cindy Cochran, Professor, Arts and Humanities, Kirkwood Community College, IA

Health and Science

Unique Collaboration Between Staffing Agency, Biotech Company, and Community College

A JCCC biotechnology and continuing education professor describes a unique 40-hour training course with Grafton Staffing for Ceva Biommune. Employees learn aseptic technique, scientific math, and manufacturing regulations. Learn how this has improved employee retention.

Luanne Wolfgram, Professor, Biotechnology, Johnson County Community College, KS

✯ 9:15 - 10:15 AM

SPECIAL SESSION

Advances in E-Learning

Perspectives on Problem Solving and Collaboration in E-Learning

Franklin 2, Level 4

Explore creative problem solving and collaboration in an e-learning environment using a creative problem-solving framework with Web 2.0 tools. This session is presented from the perspectives of a senior leader, professional, and faculty member.

Katie Tagye, Faculty Fellow, Collaborative Design Center; Amy Bosley, Vice President, Organizational Development and Human Resources; Shara Lee, Campus Director, Faculty and Instructional Development, Valencia College, FL

FORUMS

Learning Analytics

Scrum for Your Student Success Team

408, Level 4

Come learn how Lone Star College established a cross-functional data team using the Scrum framework—common in software development—to complete complex student success projects with greater agility and efficiency.

Michael Chavez, Vice President, Student Success; Marian Chaney, Associate Vice Chancellor, Analytics and Institutional Reporting, Lone Star College System, TX

Using Analytics to Recruit, Retain, and Transition Students

Survey Development Challenges: Examining Student Retention in STEM Programs

412, Level 4

PathTech LIFE seeks to understand learning, interests, family, and employment (LIFE) experiences influencing pathways into advanced technology A.S. and A.A.S. degree programs. Come discuss the challenges of developing a national survey of community college students.

Will Tyson, Associate Professor, Sociology; Edward Fletcher, Assistant Professor, Leadership, Counseling, Adult, Career, and Higher Education, University of South Florida, FL

Advances in E-Learning

Five Tips for Creating Engaging Instructional Videos With Camtasia

414, Level 4

This session will explore five tips that you can apply to your instructional videos to improve engagement. Take your Camtasia videos to the next level with little effort, and look like a pro.

Ryan Eash, Manager, Customer Success, TechSmith, MI

Creating Engaging and Interactive Content for STEM Classes

413, Level 4

Visualizing and practicing are key to learning mathematics, but many resources are not engaging or interactive. What makes online content good, what type and/or level of interaction is necessary, and what tools exist to help?

Louise Krmpotic, Senior Director, Digital Content, Maplesoft, ON, Canada

Clearing the Math Hurdle on the STEM Path

411, Level 4

Targeted and personalized math review can accelerate students into credit-bearing courses. Learn how colleges are adapting the award-winning EdReady application to support new models for transitioning students into college and career pathways.

Bryan Arvison, Manager, Regional Membership, The NROC Project, CA; Connie Calandrino, Director, Academic Foundations Mathematics, Hudson County Community College, NJ; Randi Eisen, Math Coach and Navigator, Title III-iPowers, Camden College, NJ

Manufacturing, Energy, Aerospace, and Agriculture

Advancing Industrial Manufacturing on Campus Through Training, Education, and Entrepreneurism

415, Level 4

Participants will learn how LaGuardia Community College developed an industrial manufacturing program that supports career pathways for students and connects industry certifications, noncredit to credit linkages, experiential learning, employer partnerships, and entrepreneurship.

Francesca Fiore, Assistant Dean, Workforce Development and Business Services, LaGuardia Community College - CUNY, NY

Integration of STEM and the Liberal Arts

SETTO: A Model for Identifying STEM Career Paths

409, Level 4

Explore a proposed model to effectively differentiate five STEM career types: scientist, engineer, technologies, technician, and operator (SETTO). Topics will include criteria, usage, and implementation of the model.

Pennsylvania Wu, Professor, CIS, Cypress College, CA

✯ 9:15 - 10:15 AM [continued]

Sustainability as a Framework for Integrating STEM and Liberal Arts

407, Level 4

Sustainable development may require technology, but has political, economic, and cultural facets as well. This framework was applied during a Tanzania study abroad program and can be utilized in more conventional classroom settings.

Randy Libros, Associate Professor, Electronics Engineering Technology; Boi-Lucia Gbaya-Kanga, Assistant Professor, English, Community College of Philadelphia, PA

Health and Science

Create Successful Community Educational Initiatives in Health and Science

410, Level 4

Develop an informed, engaged populace by embedding personal and social responsibility as core elements of a 21st century education in critical thought and problem solving. Engage in interdisciplinary curricular experiences in health and science.

Jo Duncan, Director, Center of Excellence for Science; Solomon Nfor, Assistant Professor, Natural Sciences, St. Philip's College, TX

POSTER SESSIONS

All Poster Sessions take place in Franklin Hall Prefunction.

Mathematics, Engineering, and Architecture

Readiness Module for Improving Student Success in Online College Algebra

Online college algebra students at Anne Arundel Community College (AACC) must complete a readiness module before starting the course. Learn about AACC's innovative approach to educate students about course rigor, test skills, and advisement.

Stacey Nicholls, Associate Professor; Alycia Marshall, Chair; Kathy Hays, Associate Professor, Mathematics, Anne Arundel Community College, MD

Creating an Autonomous Unmanned Surface Vessel

Learn how undergraduate students used the engineering design process to make a small vessel for shallow water research by utilizing a 3D printer, microcontroller, sonar, GPS, environmental monitoring sensors, and manufacturing equipment.

Catherine Walker, Assistant Professor, Mathematics; William Labby, Program Coordinator, Industrial Technology, Leeward Community College, HI

Health and Science

NBC2 Presents a Comprehensive Industry-Endorsed Biomanufacturing Curriculum

NBC2 is dedicated to educating and training a workforce for the biomanufacturing industry. Curriculum units align with 10 technician jobs and contain the knowledge, hands-on training, and documentation required for each job.

Linda Rehfuss, Associate Professor, Science and Technology, Bucks County Community College, PA; Margaret Bryans, Assistant Professor, Biotechnology, Montgomery County Community College, PA

✯ 10:15 - 11:15 AM

BRUNCH

Franklin Hall B, Level 4

✯ 11:30 AM - 12:30 PM

SPECIAL SESSION

Mathematics, Engineering, and Architecture

Ensuring STEM Transfer Student Success

Franklin 2, Level 4

Local community colleges joined forces with University of Maryland Baltimore County to promote success for transfer STEM students. This presentation highlights the work of the mathematics team to facilitate degree completion through institutional collaborations.

Robyn Toman, Professor, Mathematics, Anne Arundel Community College, MD; Raji Baradwaj, Senior Lecturer, Statistics, University of Maryland - Baltimore County, MD

FORUMS

Learning Analytics

Evidence of Academia in Crisis

408, Level 4

This session will illustrate how the claim of academia in crisis is established while discussing some dominant factors initiated from our sociocultural context that are continuing to contribute to this crisis.

Amir Salehi, Associate Professor, Philosophy, Community College of Baltimore County, MD

Using Analytics to Recruit, Retain, and Transition Students

Helping Students See Their Potential Through STEM Engagement

412, Level 4

Learn how SCTCC engages underperforming high school students through STEM, helping students realize their college potential. The session will include lessons learned, partnering with school districts, tips on creating a program, and a tool kit.

Joyce Helens, President; Mark Gucinski, Instructor, Math, Science, and Technology; Jeremy Reisinger, Instructor, Chemistry; Tarryl Clark, Dean, Sciences, Technology, and Math, St. Cloud Technical and Community College, MN

Analyzing Hawai'i Pathways: Middle School to STEM Career

410, Level 4

University of Hawai'i has developed STEM pathways to promote student success from K-12 to career. Participants will explore key metrics such as completion rates, time to degree, and workforce outcomes through analytics in this session.

Tiffany Tsang, Outreach Specialist, STEM, University of Hawai'i, HI

Advances in E-Learning

Maintaining Professionalism in Social Media

413, Level 4

In the world of social media, everything is posted for the world to see. Learn how to remain professional on your social media platforms, as well as tips to share with students.

Megan Biller, Communications Specialist, Doctorate in Community College Leadership, Ferris State University, MI

FYE for Two-Year Colleges: Flipping and Customizing Student Services

411, Level 4

Colleges are recognizing that first-year experience (FYE) programs should be accessible, ongoing resources. We will explore online, customizable tools as an ongoing solution to promote student success.

Kristen Seldon, Director, Institutional Relations, Innovative Educators, CO

Newton's Bench: Physics Laboratories for the 21st Century

407, Level 4

Newton's Bench is a system containing a hardware kit with videos which allows students to perform physics experiments at home and eliminates the equipment bottleneck in today's physics laboratories.

Gregory Perugini, Professor, STEM, Rowan College at Burlington County, NJ

Mathematics, Engineering, and Architecture

Maximizing Student and Faculty Success Through Professional Collaboration

409, Level 4

Learn how professional learning communities transformed the educational process for mathematics faculty and students. See how you, too, may dramatically increase student success with data analysis, peer observations, and consistent assessments.

Wesley Spinks, Chair; Sandra Morrissey, Instructor; Cassonda Thompson, Instructor, Mathematics, York Technical College, SC

Academic Summer Camps Lead to Student Success

415, Level 4

This interactive presentation will not only demonstrate how to start a math (science, English) camp, but will provide and engage instructors with innovative tools in the form of games and activities. Learning on any level can be fun, and we can prove it.

Ken Rand, Director, Math Academy, Hartnell College, CA

Integration of STEM and the Liberal Arts

Communication Educators

414, Level 4

With the widespread practice of brevity using social media, should STEM educators take on the responsibility of teaching how to express complete thoughts and healthy face-to-face interactions?

Avery Austin, Adjunct Professor, Physics, Northern Virginia Community College, VA

POSTER SESSIONS

All Poster Sessions take place in Franklin Hall Prefunction.

Learning Analytics

Student Perceptions: Outstanding Online Instruction

Positive and negative perceptions of online instruction from over 1,500 online students in the United States and Canada are presented. Gender, ethnicity, and age differences are considered.

Donald Orso, Professor; Joan Doolittle, Professor, Psychology, Anne Arundel Community College, MD

✯ 11:30 AM - 12:30 PM [continued]

Advances in E-Learning

E-Learning in the General Education Classroom: Technology Enriched Flipping
Faculty will discuss creative strategies for improved learning in general education classrooms within a technology-rich environment. Receive sample lessons, see room design ideas, and view results from our flipped, technology-enhanced classroom pilots.
Jennifer Seat, Instructor, Mathematics; Rhonda Gregory, Director, Distributed Education; Melva Black, Instructor, Communications, Volunteer State Community College, TN

Manufacturing, Energy, Aerospace, and Agriculture

High Altitude Balloon STEMs
Engineering and science students designed and assembled a balloon payload from conception to launch to retrieval to data analysis. Other radio-tracked data opportunities are in Earth sciences, meteorology, aerospace, and oceanography.
Robert Neil, Instructor; Charles Goodman, Instructor, Math and Physics, Pitt Community College, NC

✯ 12:45 - 1:45 PM

SPECIAL SESSION

Integration of STEM and the Liberal Arts

Women in STEM: A Civic Issue With an Interdisciplinary Approach
Franklin 2, Level 4
LaGuardia Community College takes an interdisciplinary approach to addressing the problem of fewer women graduating with STEM degrees. We will share our strategies for raising awareness around opportunities that exist for all majors in technology fields.
Seema Shah, Director, Technology and Innovation, LaGuardia Community College - CUNY, NY

FORUMS

Advanced Technology Systems and Learning Management Architecture

The What, How, and Why of Infrastructure as a Service
413, Level 4
With the improvement of bandwidth and spread of virtualization, more and more institutions, organizations, and businesses are turning to infrastructure as a service. This session will provide a live demonstration of IaaS.
John Sands, Principle Investigator, CSSIA; Bill Wolfe, Faculty, Computer Integrated Technologies, Moraine Valley Community College, IL

Using Analytics to Recruit, Retain, and Transition Students

The Invisible STEM Student: Early Identification, Community Building, and Success
412, Level 4
Community colleges do not know enough about their STEM students for early placement into pathways. We discuss early STEM student identification solutions implemented at our campus as part of the NSF-funded RiSE project.
Tom Fleming, Professor, Physics; Pat Burnett, Chair, Engineering, Edmonds Community College, WA

Advances in E-Learning

Five Ways to Build Your Own Animated GIFs Into Instruction
414, Level 4
Animated GIFs are not just for fun and games. This session will explore five different ways you can use animated GIFs in your lessons to engage and enhance learning.
Ryan Eash, Manager, Customer Success, TechSmith, MI

An Interactive Approach to Developing Faculty: The Teaching Circle

415, Level 4

Teaching Circles is an approach to faculty development that creates small group discussions on a focused topic chosen by faculty, and is designed to share best practices. The discussion is followed by a publication on lessons learned.

Francesca Catalano, Associate Dean, Math, Science, and Engineering, Kankakee Community College, IL; Daniel Benjamin, Dean, STEM, American Public University System, WV

Revolutionizing Annual Performance Summaries and Promotion

411, Level 4

The presenters will describe and display a program that has allowed evaluation in a paperless format. Attendees will see how they can save hours and improve their summary and promotion displays.

Jonathan Grimes, Professor, Psychology; Todd Abramovitz, Professor, SAIT, Community College of Baltimore County, MD

Mathematics, Engineering, and Architecture

Tried and True Instructional Techniques in Teaching Mathematics

410, Level 4

This presentation will explore engaging methods in teaching developmental and college-level mathematics topics such as finding absolute value, converting logarithmic expressions to exponential form, and finding derivative of trig functions.

Fred Katiraie, Professor, Mathematics, Montgomery College, MD

Integration of STEM and the Liberal Arts

Demonstrating Interdisciplinary Commonalities via Venn Diagrams

409, Level 4

Through hands-on activities, explore Caesar ciphers and the bubonic plague from the combined perspectives of math, history, and computing. Described in Venn diagrams, activities reflect all or any two of the disciplines.

Kathleen Tamerlano, Associate Professor, Business and Technology; Mary Hovanec, Assistant Professor, History; Kristin Egan, Assistant Professor, Math, Cuyahoga Community College - Western Campus, OH

Top 10 Reasons to Consider AP Computer Science Principles

407, Level 4

The first AP Computer Science Principles exam will be administered in 2017. Is your college prepared? Should we offer a similar course for all students? Registration, curriculum, and computer science department members will benefit.

Arta Szathmary, Professor Emeritus, STEM, Bucks County Community College, PA

POSTER SESSIONS

All Poster Sessions take place in Franklin Hall Prefunction.

Advances in E-Learning

Targeted Math Review for Career Pathways

Returning to college for new credentials often requires learners to refresh their math skills. Discover an online tool for targeted review that can help retain student focus on their chosen career path.

Ben Jacobs, Implementation Specialist, Member Support, The NROC Project, CA

Mathematics, Engineering, and Architecture

Creating Alternative Learning Strategies for Transfer Engineering Programs

Strengthen community college engineering transfer programs using alternative classroom strategies including online lectures and labs, flipped instruction, and emporium classroom models to improve student success and enhance student access to engineering courses.

Amelito Enriquez, Professor, Mathematics, Cañada College, CA

Integration of STEM and the Liberal Arts

NSF Programs in the Division of Undergraduate Education

The National Science Foundation has several programs that support undergraduate education. This poster will highlight the four major programs in the Division of Undergraduate Education.

Thomas Higgins, Program Officer, Division of Undergraduate Education, National Science Foundation, VA

☆ 1:45 - 3:00 PM

COFFEE AND REFRESHMENT BREAK

Franklin Hall B, Level 4

✯ 3:15 - 4:15 PM

FORUMS

Advanced Technology Systems and Learning Management Architecture

Leadership Academy: Best Practices and Essential Tools for Faculty

413, Level 4

Develop faculty to perform at the next level through a leadership academy. Maximize business relationships, communicate with peers, integrate soft skills into the classroom, and manage time more efficiently.

Ann Beheler, Principal Investigator, Emerging Technology Grants, Collin College, TX

Using Analytics to Recruit, Retain, and Transition Students

Pre-College Cohort Model: Success Through a Summer Academy Program

412, Level 4

Learn how a STEM summer academy model will build community college enrollment and a successful first-year experience.

Anjali Thanawala, Coordinator, STEM; Gonzalo Perez, Executive Assistant to the President; Dennis Reer, Director, STEM; David Burger, Instructor, Mathematics, Passaic County Community College, NJ

Advances in E-Learning

Making Connections: LINCing New Technology to Engage Students

408, Level 4

Explore award-winning techniques to engage students with adaptive content that will allow them to be actively engaged in the classroom. Explore how LINCing two classes in the STEM field can benefit students.

Heith Hennel, Professor; Gerald Hensel, Professor, IT, Valencia College, FL

Blackboard Assessment: Is It on the Test?

415, Level 4

With so many Web resources available, online assessment has become more difficult. In this session, the presenter will share strategies and tips for student engagement, assessment, and retention using the features of Blackboard Learn.

Marie Hartlein, Associate Professor, CIS, Montgomery County Community College, PA

Providing Hands-On Activities and Opportunities in Online Classes

409, Level 4

Faculty participants will learn how to incorporate hands-on activities and opportunities to gain real-world experience into online courses. Participants will be assisted in developing similar opportunities in their courses and programs.

Denise Pheils, Professor and Fellow, National Cybersecurity Institute, DC

Mathematics, Engineering, and Architecture

Math: Reducing Anxiety and Increasing Student Success

411, Level 4

Math preparedness is a national crisis. The University of Phoenix created curriculum incorporating foundational content into credit-bearing courses. The session will benefit faculty by sharing best practices in instructional design and learning.

Constance St. Germain, Executive Dean, Humanities and Sciences; Jennifer Fletcher, Program Dean, General Education; Jessica Philipp, Academic Dean, Humanities and Sciences, University of Phoenix, AZ

Teaching Mathematics to Millennials

410, Level 4

Teaching millennials any subject can be challenging. It is even more challenging to teach mathematics. This presentation will share teaching techniques and strategies designed to keep millennials engaged in the classroom.

Amit Dave, Faculty, Mathematics; Cornell Grant, Instructor, General Studies, Georgia Piedmont Technical College, GA

VEX U Robotics Teams: Recruitment, Graduation, and Beyond

414, Level 4

Increase STEM student enrollment by promoting a philosophy of engineering problem-solving from elementary to high school. Community outreach, recruiting, funding, and a competitive petition process for robotics team participation will be discussed.

Bernice Brezina, Interim Chair, Business and Technology, Ronda Jacobs, Area Coordinator, Information Technology; William Luyster, Professor, Math, Physics, and Engineering; Byron Brezina, Professor, Math, Physics, and Engineering, College of Southern Maryland, MD; Jim Crane, Director, Regional Operations, Robotics Education & Competition Foundation, TX

Health and Science

Engaging Students Through Exploration of 3D Printing Techniques

407, Level 4

Three dimensional printing is a dynamic field that is utilized widely in industry, and is becoming increasingly popular as an educational tool. This session highlights this widely implemented industry practice utilizing low cost techniques.

Christine Delahanty, Associate Professor, Engineering, Bucks County Community College, PA

POSTER SESSIONS

All Poster Sessions take place in Franklin Hall Prefunction.

Integration of STEM and the Liberal Arts

Integration of Research and Writing Into the STEM Curriculum

This session will include evidence of increased student retention and self-efficacy, as well as a significant increase in ACS scores. Rubrics for evaluation of student writing and presentations will be shared.

Lorelei Wood, Residential Faculty, Chemistry, Chandler-Gilbert Community College, AZ

Of Mice and STEM

Bounded by minimum accreditation standards and maximum state-mandated degree credits, CapTechU innovates to infuse the arts into STEM. Ranging from History of Technology to Electronic Music, we attest to the symbiotic nature of STEAM education.

Helen Barker, Dean, Academics; Claude Rankin, Chair, Business and Liberal Arts, Capitol Technology University, MD

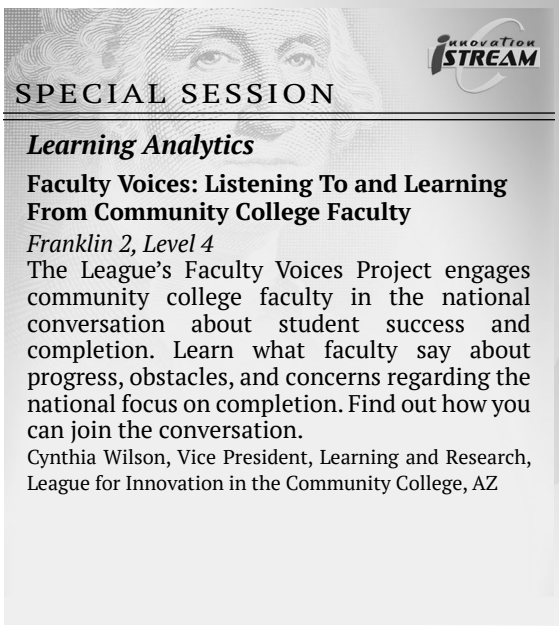
Health and Science

Mathematics Competency Through Dimensional Analysis for Nursing Chemistry Students

Mathematics competency in pre-nursing education is critical. To build competency, we present a variation of dimensional analysis for nursing chemistry and assessment of student performance. This session is for math or science instructors.

Leonard Anagho, Assistant Professor, Chemistry, Georgia Gwinnett College, GA

✯ 4:30 - 5:30 PM



SPECIAL SESSION

Learning Analytics

Faculty Voices: Listening To and Learning From Community College Faculty

Franklin 2, Level 4

The League's Faculty Voices Project engages community college faculty in the national conversation about student success and completion. Learn what faculty say about progress, obstacles, and concerns regarding the national focus on completion. Find out how you can join the conversation.

Cynthia Wilson, Vice President, Learning and Research, League for Innovation in the Community College, AZ

FORUMS

Advances in E-Learning

Gearing Up for Success: Utilizing Online Orientation to Impact Retention

411, Level 4

Learn how Reynolds College partnered with Innovative Educators to create a holistic approach to orienting students. Leave with solutions for improving and expanding orientation programming. This session is appropriate for online instructors and student services staff.

Meg Foster, Coordinator, Online Student Services, Quality Enhancement Plan, J. Sargeant Reynolds Community College, VA

Innovation + Inspiration = Engaging + Connecting With Students

415, Level 4

Today's students are much different from students of 10 years ago. Session attendees will actively participate in a variety of activities and games that will enhance instruction for any course, on any level.

Ken Rand, Director, Math Academy, Hartnell College, CA

✯ 4:30 - 5:30 PM [continued]

Mathematics, Engineering, and Architecture

Effectiveness of Engineering Learning Communities at Community Colleges

412, Level 4

The study investigated whether student success was tied to an engineering learning community (ELC). The study found improved grades, higher retention, and higher graduation and transfer rates for ELC students.

James MacCariella, Professor, Engineering Science, Mercer County Community College, NJ

Design and Construction of a Multipurpose Automated Microscope Testing Device

410, Level 4

A sophisticated type microscope for medical and industrial samples is modified using specific laser light source. Sample images produced are fed to a computer by a classy camera, to be treated using pre-prepared algorithms.

Muthanna Al-Khishali, Professor, Applied Technology, Humber College Institute of Technology and Advanced Learning, ON, Canada

Manufacturing, Energy, Aerospace, and Agriculture

Badges? We Need Those Stinkin' Badges

409, Level 4

Micro-credentials—digital badges—benefit students, providing an explicit record of competencies illustrating mastery of specific industry skills and enhancing their employability.

Brenda Perea, Project Manager, Instructional Design; Katherine Woodmansee, Instructional Designer, Colorado Community College System, CO

STEM Unlimited: Attainable STEM Careers for Still-Developing Learners

408, Level 4

We will dispel myths that STEM careers are limited to math and science whizzes, and explore aerospace and manufacturing jobs accessible to still-developing learners from community colleges.

Jocelyn Sirkis, Director, Professional Development, Community College of Philadelphia, PA

Health and Science

Build Strong Knees and Anatomy Education With Anatomy in Clay

414, Level 4

Discover how building the knee with clay on a skeletal model will build strong retention. Explore experiential learning that engages students with best STEAM practices, while discussing form, function, and injury.

Teri Fleming, Educator, Life Sciences, Anatomy in Clay Learning System, CO

Flexing Anatomy and Physiology

413, Level 4

CWI recently launched a new model of labs known as the Flex Lab for anatomy and physiology courses which utilizes hybrid instruction coupled with flexible scheduling to focus on competencies identified in *Vision and Change*.

Nicole Frank, Chair, Science; Kae Jensen, Dean, STEM, College of Western Idaho, ID

Developing and Assessing Community College Research-Based Lab Experiences

407, Level 4

Discuss the design, analysis, and assessment of a research-based laboratory experience at a community college. Emphasis is on course logistics and student learning outcomes.

Dominic Salerno, Associate Professor; Linda Powell, Professor and Department Head; Marjaneh Razmara, Visiting Lecturer; Ricardo Lopez, Assistant Professor, Biology, Community College of Philadelphia, PA

✯ 5:30 - 7:30 PM

ELECTION NIGHT COVERAGE ON THE BIG SCREEN

Grand Ballroom A-F, Level 5

Come enjoy some traditional Philly fare and join colleagues for election night coverage.

booth
#306

The NROC Project is a community-guided, non-profit organization collaborating with academics to create digital courses and tools designed to improve college and career readiness. Learn more about how we support community colleges and get involved at **NROC.org**.

EdReady | Hippo Campus | NROC MATH | NROC ENGLISH

WEDNESDAY
NOVEMBER 9, 2016

✯ 8:00 - 9:00 AM
FORUMS

Using Analytics to Recruit, Retain, and Transition Students

Community College Optics Program Success Through Aligning High School Curriculum

408, Level 4

Explore how one college's optics program, developmental education program, and partnering high school collaborated to develop a college readiness program—particularly focused on math skills—to create a seamless transition to the college optics program.

Alexis Vogt, Associate Professor and Chair, Optical Systems Technology; Mary Ellen Gleason, Coordinator, East High School Optics, and Associate Professor, ESOL/TRS, Monroe Community College - SUNY, NY; Paul Conrow, Teacher and Coordinator, Optics, East High School, NY

STEM Pathways: Community College Can Be Their Four-Year College

412, Level 4

Learn how to create a successful pathway for students using activities and techniques that will support students throughout their challenging journey from high school, through community college, to their four-year degree.

Dennis Reer, Director, STEM; Gonzalo Perez, Executive Assistant to the President; David Burger, Instructor, Mathematics; Anjali Thanawala, Coordinator, STEM, Passaic County Community College, NJ

Mathematics, Engineering, and Architecture

Geometric Series and Their Applications

413, Level 4

Geometric series are a basic artifact of algebra; they correspond remarkably often with Markov chains. The finite geometric series formula is at the heart of many of the fundamental formulas of financial mathematics.

Fred Katiraie, Professor, Mathematics, Montgomery College, MD

BSEET's Online Capstone Project Scheme, Implementation, and Results

410, Level 4

Capstone experience (CE) in online programs is limited. This paper will discuss the use of CE in an online course at Excelsior College.

Nikunja Swain, Professor; Shambhu Shastry, Director, Business and Technology, Excelsior College, NY

Reaching Out to Underrepresented Populations

411, Level 4

Learn successful strategies for reaching out to underrepresented populations through engaging hands-on activities in lasers, robotics, and advanced technologies. The Midwest Photonics Education Center will share best practices and lessons learned.

Greg Kepner, Chair, Advanced Technology, Indian Hills Community College, IA

Manufacturing, Energy, Aerospace, and Agriculture

Integrating Drones Across the Curriculum

415, Level 4

This session will present model curricula for preparing students to become remote pilots in command of small unmanned aircraft systems for geospatial data collection, public safety applications, and media studies.

James Taggart, Professor, CIS, Atlantic Cape Community College, NJ

Health and Science

Development and Implementation of a Grant-Driven Healthcare Career Recruitment Program

407, Level 4

This program provides adult learners an introduction to healthcare careers. Highlights include workforce, stackable curriculum, and e-learning that encourages sequential accomplishments and employability. This will interest community college healthcare and online educators, and student recruiters.

Kathleen Michell, Director, Allied Health; Beryl Stetson, Chair and Associate Professor, Health Science Education, Raritan Valley Community College, NJ

SEE PROGRAM CHANGES

Integration of STEM and the Liberal Arts

Incorporating STEM Into English Reading and Writing Courses

414, Level 4

English faculty share effective ways to incorporate STEM content into their courses to prepare students for science, technology, and health care studies. In groups, participants create scaffolded lessons that promote understanding of challenging content.

Girija Nagaswami, Associate Professor; Linda Fellag, Associate Professor; Linda Buchheit, Associate Professor; Simone Zelitch, Associate Professor; Junior Brainard, Assistant Professor, English, Community College of Philadelphia, PA

Entrepreneurship: A Catalyst to Inject STEM Into Liberal Arts Programs

409, Level 4

This interactive session will highlight best practices across the nation for faculty in all disciplines to use entrepreneurial mindset and experiential activities to increase classroom engagement. Rapid ideation and team building will be practiced.

Rebecca Corbin, President and CEO, National Association for Community College Entrepreneurship, MA; Edgar Troudt, Assistant Professor, Managerial Sciences, Long Island University, NY

✯ 9:15 - 10:15 AM

FORUMS

Advances in E-Learning

Zero to Hero: Journey to a Cloud-Based Video Solution

411, Level 4

Follow our journey from a video tool with zero use to a cloud-based video hosting solution. Using TechSmith Relay allowed our school to quickly and effectively create, share, interact with, and analyze videos.

Kelly Miller, Specialist, Educational Technology, Lebanon Valley College, PA

Mathematics, Engineering, and Architecture

Encouraging, Supporting, and Sustaining Women in STEM: The wSTEM Group

409, Level 4

This presentation will discuss various activities—including social media, outreach, and academic programs—designed to support and sustain women in STEM in a gender-inclusive, university-affiliated group for students, faculty, and staff.

Francesca Catalano, Associate Dean, Math, Science, and Engineering, Kankakee Community College, IL

Integration of STEM and the Liberal Arts

An Introduction to the Internet of Things for All Disciplines

415, Level 4

Students in all disciplines can explore the Internet of Things using Raspberry Pi computers. This is a hands-on workshop using Pis, breadboards, and LEDs. With these simple, guided lessons, anyone can do this.

Catherine Bosse, Manager, Instructional Technology, Anne Arundel Community College, MD

Creating Pre-College STEM Pipelines Through Summer Camp

414, Level 4

Learn how to create a pre-college STEM summer camp that provides hand-on technology experiences while highlighting the practical application of those technologies in everyday life.

Maria Bailey-Benson, Residential Faculty, Business and Information Technology, South Mountain Community College, AZ

Forensic Biology: Integrating Social Sciences for Student Success

408, Level 4

Presenters will discuss the development of a non-majors course in Forensic Biology. Originally intended for the justice and paralegal programs, students in many majors are enjoying learning science in the context of law.

Kristy McGuire, Associate Professor; John-Paul Vermitsky, Assistant Professor, Biology, Community College of Philadelphia, PA

Health and Science

Developing Online Homework Assignments Geared for Student Success

412, Level 4

Participants will learn how the development of a master shell for a general education biology course provides students with interactive and engaging assignments. The presenter will also demonstrate outcomes for student retention and success.

Ellen Genovesi, Assistant Professor, Biology, Mercer County Community College, NJ

Using Analytics to Recruit, Retain, and Transition Students

Academic and Student Support Interventions to Improve STEM Student Success

407, Level 4

With NSF funding, the NC STEM Alliance exists to increase the number of students who earn bachelor's degrees in STEM fields. Join us as we share strategies that our colleges have implemented.

Bruce Johnson, Associate Dean; Amber Griffin, Program Coordinator, STEM, Central Piedmont Community College, NC; Matthew Lee, Program Coordinator, STEM, Davidson County Community College, NC; Aloysius Jones, Program Coordinator, STEM, Guilford Technical Community College, NC

✯ 10:30 AM - 12:00 PM

CLOSING GENERAL SESSION

Grand Ballroom A-F, Level 5

CHAIR
Rufus Glasper
President and CEO
League for Innovation in the Community College

KEYNOTE PRESENTATION

How Community Colleges Can Transform STEM Students

Linda Powell (Moderator)
Department Head and Professor, Biology
Community College of Philadelphia

Student Alumni Panel
Terrence Caldwell, Doctoral Student, Pharmacy, University of the Sciences, PA

Steven Jones, Research Associate, Biology, University of Pennsylvania, PA

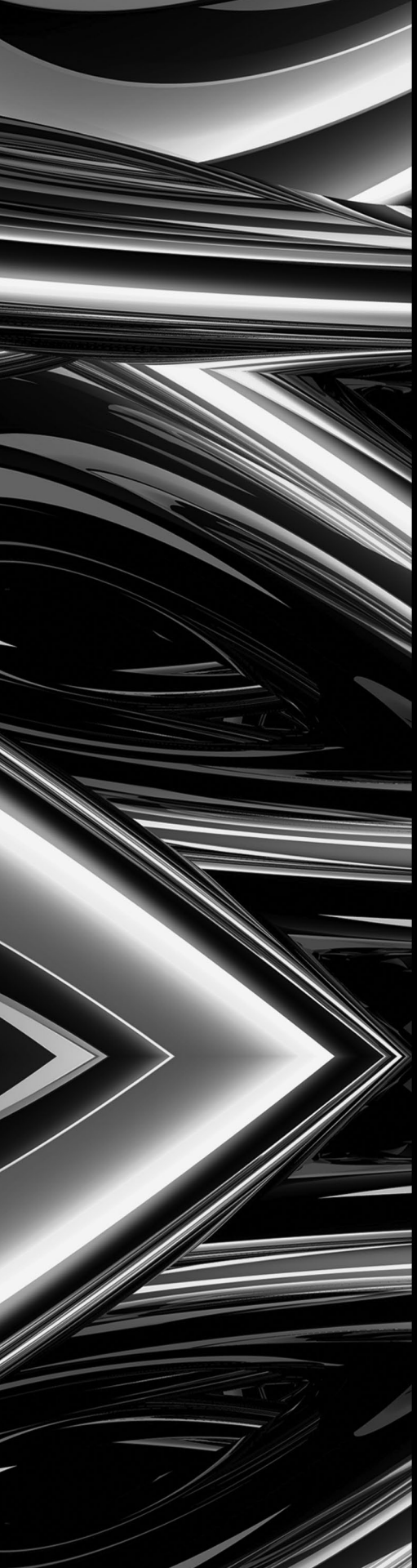
Marcella Stokes, Mechanical Engineer, Government Agency, GA

Yolanda Williams-Bey, Program Manager, Education, Delaware Environmental Institute, University of Delaware, DE

Tamika L. Wilson-Byrd, Analyst, Materials Management Team, American Water, PA

Antonette Todd, Post-Doctoral Research Associate, Molecular Genetics & EpiGenomics Lab, Delaware State University, DE

Dr. Powell will facilitate a panel discussion with her former students who will describe how their experiences at Community College of Philadelphia assisted them in moving from developmental education to completing associate's degrees in a STEM field, and beyond.



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Community College Week
THE INDEPENDENT VOICE COVERING COMMUNITY, TECHNICAL AND JUNIOR COLLEGES, SINCE 1988

BOOTH 307

Community College Week (CCW) and ccweek.com, published by Autumn Publishing, provide the only independent voice for faculty, administrators, and associations at the nation's 1,200 community, technical, and junior colleges. Nearly 26,000 readers turn to CCW in print and online for information they trust on subjects ranging from funding to the impact of developments unfolding in Washington. In CCW's 26 annual issues, readers find POVs from leaders on issues critical to higher education, statistics and data, and news unavailable from other sources. They keep ahead of trends, dangers, and opportunities in the ever-evolving technology world, not only through updates in regular editions, but also in twice-yearly supplements offering educators the chance to benefit from case studies at other institutions. Since 1988, CCW has been the free press publication of record, providing coverage exclusively about community colleges. News and topics may change, but CCW's commitment to higher education never will.

Pamela K. Barrett, pbarrett@ccweek.com
(703) 385-1982
www.ccweek.com

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BOOTH 301

At nonprofit **Educational Testing Service** (ETS), we advance quality and equity in education for people worldwide by creating high-quality assessments based on rigorous research. Institutions of higher education rely on ETS to help them demonstrate student learning outcomes and promote student success and institutional effectiveness.

Laura Plemenik, lplemenik@ets.org
(609) 683-2726
www.ets.org

GlobalMindED

BOOTH 418

GlobalMindED creates a diverse, capable talent pipeline by providing opportunities through strong networks, resources, and relationships that lead to access and equity for all. GlobalMindED is the first U.S. conference of its caliber to bring first-generation college students, educators, industry professionals, global entrepreneurs, policy makers, and nonprofit leaders together to produce inclusive and collaborative workplace outcomes. Focusing on key questions in K-12, higher education, STEM/STEAM, technology, health, global work skills, and policy, educational innovators, entrepreneurs, and thought leaders share their experiences on this national and global stage.

Carol Carter, caroljcarter@lifebound.com
(303) 327-5688
www.globalminded.org

Innovative Educators
Supporting Academic & Professional Growth In Higher Ed

BOOTH 313

Innovative Educators is dedicated to providing superior training focused on critical issues facing students and educators today. Our primary goal is to provide the information, training, and skills necessary to implement positive change on a personal, professional, and institutional level.

Kristen Seldon, kristen@ieinfo.org
(303) 819-5366
www.innovativeeducators.org

BOOTH 318

The League for Innovation in the Community College (League) is an international nonprofit organization with a mission to cultivate innovation in the community college environment.

Founded in 1968 by B. Lamar Johnson and a dozen U.S. community and technical college presidents, the League has proudly served community college institutions for almost five decades. Through these years, the League has sponsored more than 200 conferences, institutes, seminars, and workshops; published over 200 reports, monographs, periodicals, and books; led approximately 140 research and demonstration projects; and provided numerous other resources and services to the community college field.

CEOs from 18 of the most influential, resourceful, and dynamic community colleges and districts in the world comprise the League's board of directors and provide strategic direction for its ongoing activities. These community colleges and their leaders are joined by almost 500 institutions that hold membership in the League Alliance.

With this core of powerful and innovative community colleges and 100 corporate partners, the League continues to fulfill its mission through conferences and institutes; online resources; research; and projects and initiatives with member colleges, corporate partners, government agencies, and private foundations in support of student and institutional success.

League activities and initiatives center on essential topics for community colleges, including diversity, equity, and inclusion; information technology; leadership development; learning and student success; research and practice; and workforce development.

Chris Hennessey, hennessey@league.org
(480) 705-8200
www.league.org

BOOTH 319

LifeBound is a student success company that provides resources, coaching, and training for faculty and staff to drive learning and personal development for success in college, career, and life. We support students from 5th grade through college and into the world of work by promoting career pathways for STEM/STEAM.

Carol Carter, contact@lifebound.com
(303) 327-5688
www.lifebound.com

BOOTH 306

The NROC Project is a community-guided, nonprofit organization collaborating with academics to create digital courses and tools designed to improve college and career readiness. Learn more about how we support community colleges and get involved.

Amanda Melton, amelton@nroc.org
(206) 949-2814
www.NROC.org

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BOOTH 213

The goal of the **CompTIA** Academy Partner Program is to provide valuable tools and resources to assist schools in recruiting, training, certifying, and upgrading the skills of their students. IT careers start with the right education, and research has shown that certified employees have superior communication skills and are better able to understand new or complex technologies. CompTIA's Academy Program is designed to help schools promote certification and enhance student career opportunities. The program is open to high schools (including career or technical centers), degree granting colleges and universities, and not-for-profit/501(c)3 organizations that provide technology instruction.

Jill Thielmann, jthielmann@comptia.org
(630) 678-8334
www.comptia.org

BOOTH 312

Excelsior College is a regionally accredited, nonprofit distance learning institution that focuses on removing obstacles to the educational goals of adult learners. Founded in 1971 and located in Albany, NY, Excelsior is a proven leader in the assessment and validation of student knowledge. It offers more efficient and affordable access to degree completion through multiple avenues: its own online courses and college-level proficiency examinations, and the acceptance in transfer of credit from other colleges and universities as well as recognized corporate and military training programs.

Natalie Betterton, nbetterton@excelsior.edu
(518) 608-8399
www.excelsior.edu

BOOTH 309

The **Ferris State University** Doctorate in Community College Leadership develops leaders of mission-driven, 21st century community colleges. Taught by experienced, high-level community college leaders, this program prepares leaders for the changing environments in higher education through real-world problems and cases. This blended program requires minimal onsite time. A key feature is that the dissertation is integrated throughout with a goal of having individuals complete it by the end of the three-year program.

Megan Biller, meganbiller@ferris.edu
(231) 591-2710
www.ferris.edu

BOOTH 407

The industry leader in technology furniture innovations, **Spectrum** is in touch with today's technology for classrooms and multimedia presentation furniture. Spectrum offers furniture to meet every need and budget with multimedia lecterns, self-storing computer desks, tablet/laptop charging carts, collaboration tables, and seating.

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souimet@spectrumfurniture.com
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www.spectrumfurniture.com

BOOTH 412

For more than 45 years, **Walden University**, an accredited institution, has helped adult learners reach their educational goals. With a mission to affect positive social change, the university prepares students with skills that can be applied immediately in the real world through a career-relevant curriculum that reflects current market trends.

Katie Hykes, katie.hykes@waldenu.edu
(443) 286-3196
https://www.waldenu.edu

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APU
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BOOTH 512

American Public University System (APUS), recipient of the Online Learning Consortium's (OLC) Gomory Award for Quality Online Education and four-time recipient of OLC's Effective Practice Award, offers more than 90 online degree programs through American Public University and American Military University. More than 60,000 alumni worldwide have benefited from APUS's relevant curriculum, affordability, and flexibility in earning their degrees.

Chuck Pfeifer, cpfeifer@apus.edu
(304) 224-6936
studyatapu.com

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BOOTH 414

The mind cannot forget what the hands have learned. **Anatomy in Clay Learning System** provides effective, informative, and relevant anatomy education through hands-on learning that awakens kinesthetic intelligence. Our system advances the study of anatomy and creates success for teachers and students, who gain higher understanding and knowledge retention.

Liz Hoxeng, liz@anatomyinclay.com
(970) 667-9047
www.anatomyinclay.com

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BOOTH 413

Carolina Biological Supply offers college science educators distance learning labs that give students the same rigorous lab experience as campus-based students. Challenging investigations teach lab skills, data collection, and analysis. Kits have been thoroughly tested in non-lab settings, with safety and disposal issues addressed. Stop by our booth to learn more.

Penny Canady, penny.canady@carolina.com
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eScience Labs®

BOOTH 421

eScience Labs collaborates with hundreds of higher education institutions to provide a traditional hands-on laboratory experience for students engaged in online blended learning. Through a combination of science lab kits, virtual learning tools, and customized digital curriculum, eScience Labs helps higher education institutions expand and strengthen science comprehension.

Eduardo Salvidrez
esalvidrez@esciencelabs.com, (303) 741-0674
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BOOTH 518

HERA laboratory planners bring comprehensive understanding of educational facilities, science pedagogies, emerging laboratory trends, and operational approaches that challenge higher education institutions. HERA's proven expertise can help you respond to accelerating change and plan for the future with functional, adaptable, and cost-effective teaching and research environments for STEM and health science programs.

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BOOTH 415

With over 25 years of experience developing solutions for technical education, **Maplesoft** is revolutionizing how STEM-based courses can be brought online using technology that improves student comprehension, retention, and success. Moving a STEM-based course online comes with many challenges. Stop by our booth to explore Maplesoft's easy to use solutions.

Louise Krmpotic, louisek@maplesoft.com
(519) 747-2373
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Helping you make smarter decisions

BOOTH 500

SmarterServices provides the SmarterMeasure Learning Readiness Indicator, which has measured the levels of readiness for learning online or in a technology-rich environment of over 3,000,000 students from more than 500 educational institutions. SmarterServices is also the first to provide a proctoring process management system—SmarterProctoring—which, through LMS dashboards, allows schools to track the workflow for multiple proctoring modalities across their enterprise.

Tara McLaughlin, tara@smarterservices.com
(334) 491-0412
www.smarterservices.com

TechSmith®

BOOTH 321

TechSmith Corporation provides practical business and academic software products that can dramatically change how people communicate and collaborate. TechSmith enables users to work more effectively wherever they may be, and ensures that the process of creating, sharing, and collaborating around content is simple and intuitive so that others can learn from their knowledge.

Josanna Sutka, j.sutka@techsmith.com
(517) 381-2300
www.techsmith.com

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BOOTH 506

ASM International is the world's largest association of metals-focused materials engineers and scientists. A member- and volunteer-based organization, ASM serves as a central resource that gathers the latest applied information from the field and disseminates it back to industry, academia, and government through published content, classes, conferences, expositions, and local chapter engagement.

Denise Sirochman
denise.sirochman@asminternational.org
(440) 338-5409
www.asminternational.org

BOOTH 113

Operate robots, play interactive games, and participate in challenges at the **College of Southern Maryland** booth. Robots designed and built with the popular classroom robotics platforms VEX EDR and VEX IQ will be available for hands-on activities. This year's new collegiate VEX U game is Starstruck. This is a fast-paced spectator game. Teams score points by scoring stars and cubes in scoring zones or hanging their robot on a hanging bar. Practice manipulating a robotic arm or drive a real-life military EOD robot. Challenge opponents in a game of freeze-tag or in the VEX IQ game, Crossover.

Bernice Brezina, berniceb@csmd.edu
(301) 934-7556
www.csmd.edu

BOOTH 323

Community College of Philadelphia offers more than 70 associate degrees and academic and proficiency certificate programs. Recent graduates continue to strengthen Philadelphia's local economy and workforce—78 percent are employed in Philadelphia and 93 percent work in the Greater Philadelphia region. Online and hybrid courses and degree programs provide even more flexibility for students. Businesses and professionals look to Corporate Solutions for specialized services, including customized workforce training, certification training, and onsite degree programs.

Erica Harrison, eharrison@ccp.edu
(215) 751-8941
www.ccp.edu

BOOTH 401

For community and technical colleges that want to make the most of their professional development dollars, the **National Institute for Staff and Organizational Development** (NISOD) provides budget-friendly, high-quality, and faculty-focused programs and resources. For nearly 40 years, NISOD's customer-focused approach has helped align our wide array of benefits with the needs of our members, which explains why the American Association of Community Colleges named NISOD, "the country's leading provider of professional development for community college faculty, staff, and administrators."

Britney Sauer, sauer@austin.utexas.edu
(832) 483-6770
www.nisod.org

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ATE CENTERS
www.atecenters.org

BOOTH 402

The National Science Foundation's **Advanced Technological Education (ATE) Centers of Excellence** ensure that our future technical workforce receives the education and tools necessary to excel professionally to meet the needs of our ever-growing high-tech industries. NSF-ATE Centers partner with industry for a new American workforce.
Razia Fayiz, rfayiz2@hccfl.edu
(813) 259-6580
atecenters.org

NACCE
THE IMPACT OF ENTREPRENEURSHIP

BOOTH 420

NACCE is a member organization of over 300 community colleges representing nearly 2,000 staff. Presidents, educators, administrators, and center directors are focused on inciting entrepreneurship in their community and on their campus. NACCE has two main goals: (1) to empower the college to approach the business of leading a community college with an entrepreneurial mindset; and (2) to grow the community college's role in supporting job creation and entrepreneurs in their local ecosystem.
Rebecca Corbin, corbin@nacce.com
(856) 404-0388
www.nacce.com

OREGON STORY BOARD

BOOTH 209

The **Oregon Story Board Foundation** is dedicated to advancing economic growth and opportunity of augmented, mixed, and virtual reality (VR) in Oregon. VR represents a new frontier in human-computer interaction, and we are dedicated to creating accessible, affordable learning opportunities so that a diverse cross section of people can participate in constructing this emerging industry sector. Stop by our booth for a live HoloLens demonstration and to learn more about creating holographic content and using mixed reality as a teaching tool for trade-based education.
Shelley Midthun, info@oregonstoryboard.org
www.oregonstoryboard.org

ion Illinois Online Network
Supporting Online Education Throughout the World

BOOTH 419

The **Illinois Online Network** (ION) Master Online Teacher and Certified Online Learning Administrator certificates help faculty and administrators acquire the skills and knowledge needed to teach and lead online. Connect with thousands of colleagues around the nation and the world and make ION your strategic partner in professional development. From experiencing online learning for the first time as a student, to honing your online teaching skills, make your virtual classroom a reality.
Scott B. Johnson, sbjhnsn@uillinois.edu
(217) 265-7722
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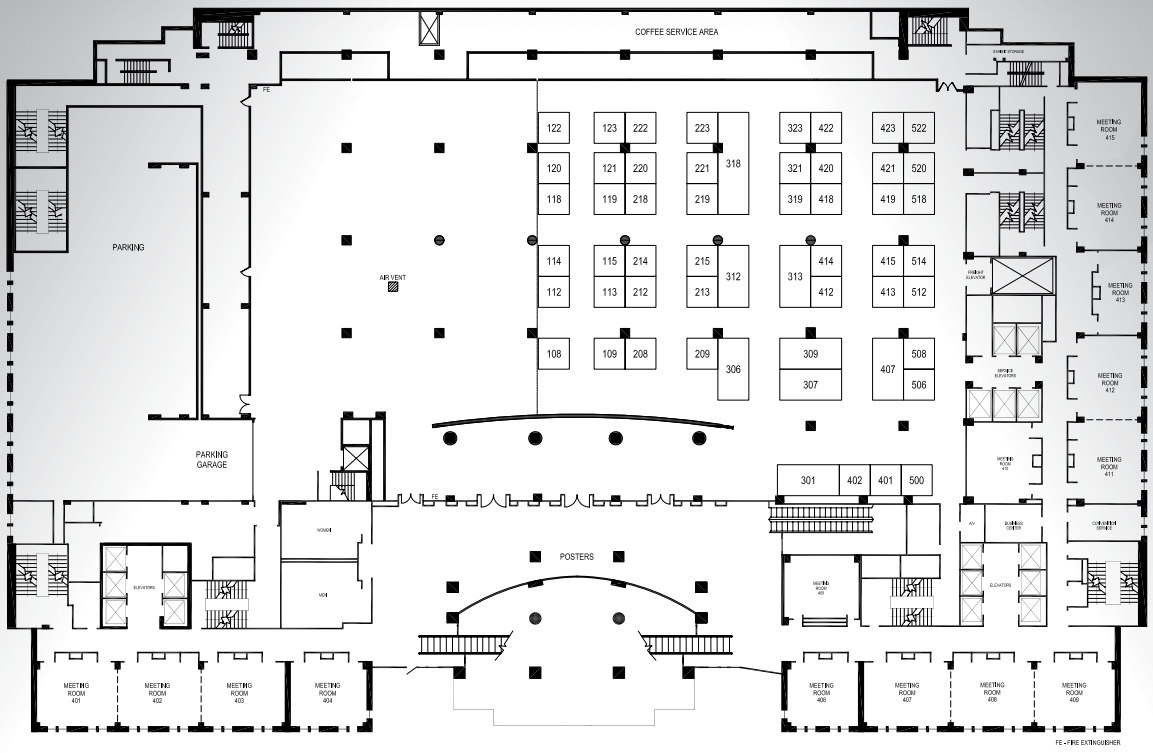
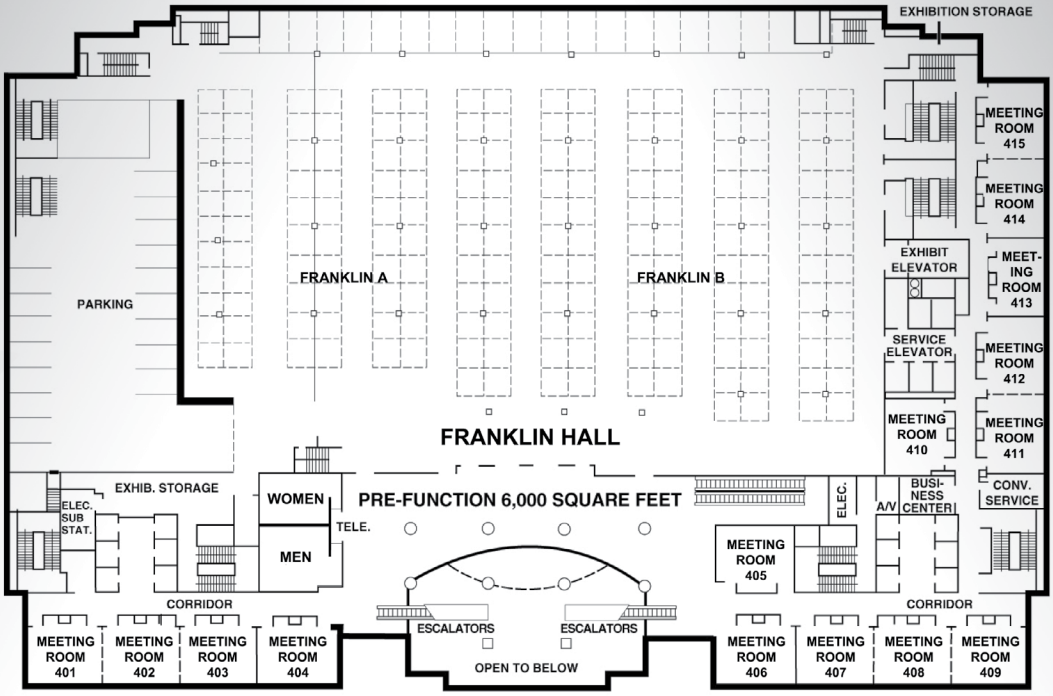
EXHIBITION HALL MAP

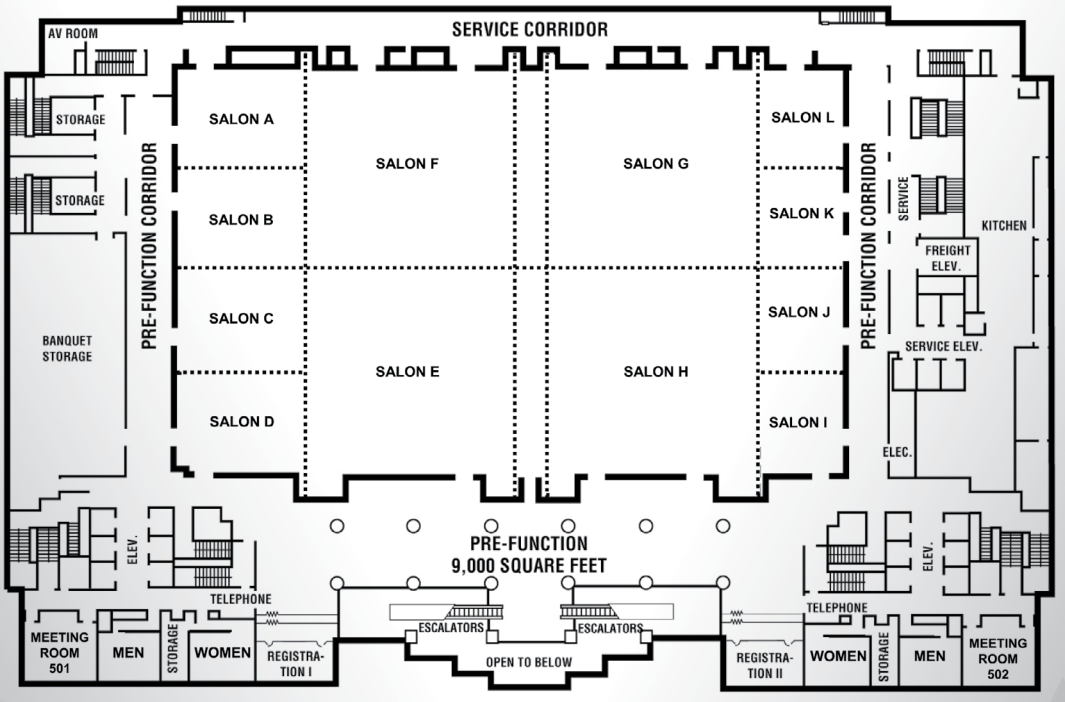


PHILADELPHIA MARRIOTT DOWNTOWN MAPS

LEVEL 4



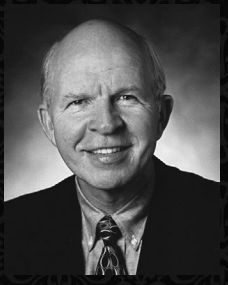
LEVEL 5



2016

John & Suanne Roueche

Excellence Awards



John Roueche

Suanne Roueche

The League invites all League Board and Alliance member colleges and systems to select and submit the names of those at their institutions who exemplify exceptional teaching and leadership for the 2016 John & Suanne Roueche Excellence Awards.

- Submit recipient names through December 23, 2016

A special John & Suanne Roueche Excellence Awards Program will list the names, titles, and colleges of all honorees and feature congratulatory ads from League member colleges.

- Submit congratulatory ads through January 16, 2017

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1333 South Spectrum Boulevard, Suite 210
Chandler, AZ 85286 • www.league.org
Phone: (480) 705-8200 Fax: (480) 705-8201