PerspECCtive

Theme:

**Doing More With Less** 

# **Closing the Knowledge Gap**



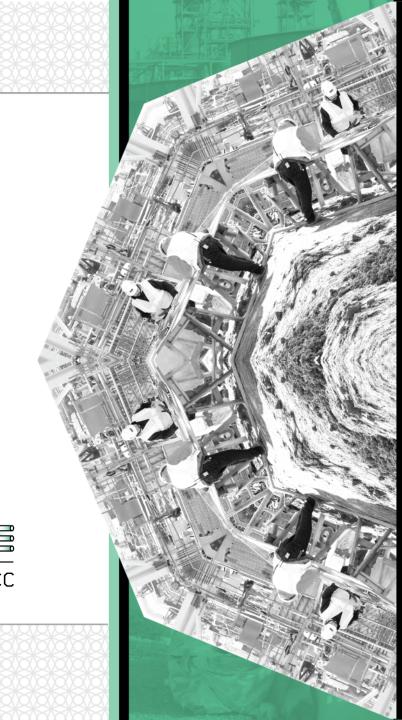
Year: **2017** 

Date:

Dec. 12-14

Location:

**Boca Raton, FL** 



PerspECCtive

**Doing More With Less** 

# **Opening Remarks**

Steve Cabano **ECC Past Chairman's Council** Pathfinder, LLC







Date:

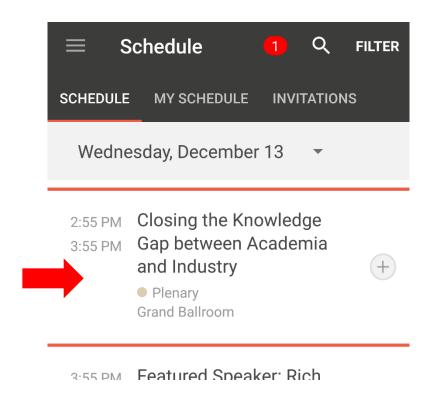
Dec. 12-14

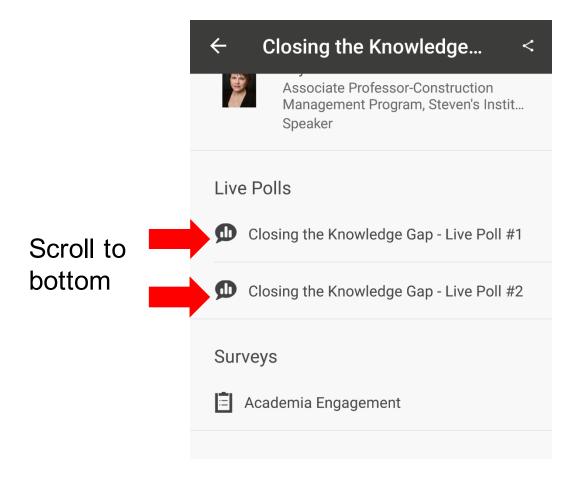
Location:

**Boca Raton, FL** 

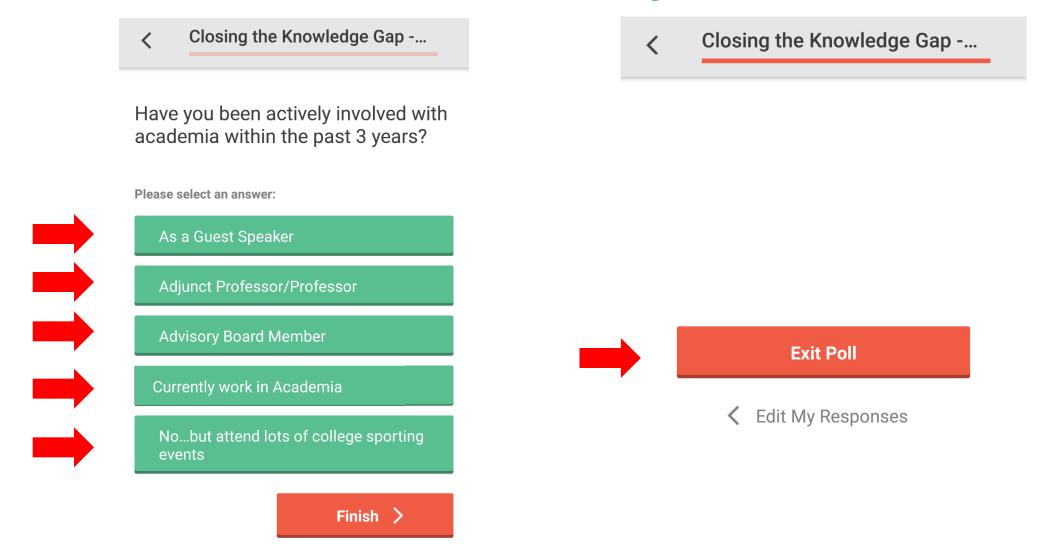


# How to use WiFi connected ARS system





# How to use WiFi connected ARS system



PerspECCtive

Theme: **Doing More With Less** 

# **History of ECC's Involvement**

John W. Dalton, Sr. ECC Past Chairman's Council Zachry Group



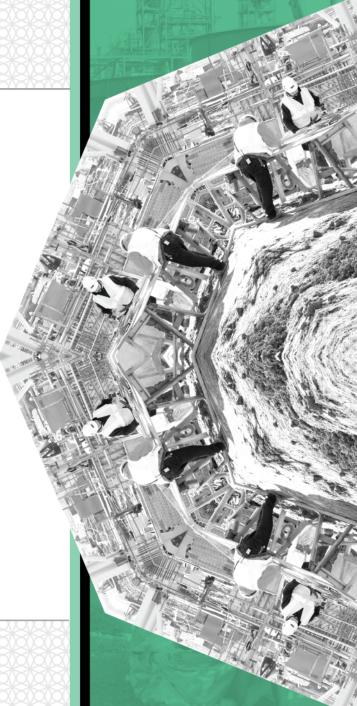




Date: **Dec. 12-14** 

Location:

**Boca Raton, FL** 



# **Audience Question**

- Have you been actively involved with academia within the past 10 years?
  - As a Guest Speaker
  - Adjunct Professor/Professor
  - Advisory Board Member
  - Currently work in Academia
  - No...but attend lots of college sporting events



# Your poll will display here



Download and install our free app polls.cvent.com/app



View this slide in slideshow mode to display results

This slide is compatible with:



Using PowerPoint for Windows?

 $Return\,to\,your\,poll\,and\,download\,the\,correct\,slide$ 

Available on Windows for:



2013 SP1





PowerPoint 2007 Having trouble viewing the poll?



Get help online at polls.cvent.com/help

# **Background**

- In 2005, a group of ECC Board Members believed there was opportunity to better link industry and academia
- However, there were some perceived gaps that needed to be validated.
- In 2007, the ECC funded a study/survey with Texas A&M University and Dr. J. Vanegas



### The Drivers...

- The capital projects industry needs:
  - People that can be more effective and efficient in a dynamic changing global work environment (the talent)
  - People with a different set of skills and abilities that are more compatible to the current needs of the industry (the competency)
    - Technical, interpersonal, communication, technological, leadership, creativity, business acumen, etc.



# The Questions...

- In the current educational context:
  - There are perceived gaps between the content of curricula versus industry needs...
  - Belief that current pedagogical approaches and learning environments are not keeping up with the dynamic changing environment of professional practice
  - Many educators are not taking advantage of a wealth of industry knowledge (best practices) and experience (lessons learned) in the curricula



### The Results...

- Survey results validated significant gap in industry expectations and academia perceptions on
  - Curricula to industry needs
  - Adequacy of pedagogical approach
  - Use of industry knowledge and experience
- Over arching was the majority of universities did not recognize the need for change
- The survey also highlighted a number of barriers and challenges for the universities (especially at the undergraduate level)
  - Funding restrictions
  - Limitation of hours for degree completion
  - Accreditation challenges
  - Non-technical desired skills required courses from other colleges within the universities
- Over the past 10 years a core group of universities have been working with industry to "close the gap"

# **Audience Question #2**

- Do you feel there is still a gap in skillset needs of graduates between industry and academia?
  - No gaps graduation students are well prepared
  - Changes within academia have been limited to "close the gaps"
  - Recognize universities are working with industry to help close the gaps and make the changes necessary to support industry
  - Have no opinion about to retire

# Your poll will display here



Download and install our free app polls.cvent.com/app



View this slide in slideshow mode to display results

This slide is compatible with:



Using PowerPoint for Windows?

 $Return\,to\,your\,poll\,and\,download\,the\,correct\,slide$ 

Available on Windows for:



2013 SP1





PowerPoint 2007 Having trouble viewing the poll?



Get help online at polls.cvent.com/help

# **Audience Question #2 continued...**

- Great News!
- A lot has been done by a number of universities across the country
  - CII best practices courses
  - Non-tech skills being taught
  - Latest technologies being used within the courses
  - New accredited degree programs being implemented
- Today you will hear from a sampling of universities and what they are doing to support industry needs

## **Panel Members**



PATHFINDER, LLC Steve Cabano (Moderator)



**ZACHRY**John Dalton (ECC History)



CONSTRUCTION INDUSTRY
INSTITUTE
Cindy King



DREXEL UNIVERSITY
Christine Fiori



NORTH CAROLINA STATE
UNIVERSITY
Ed Jaselskis



STEVEN'S INSTITUTE OF TECHNOLOGY Ellyn Lester



TEXAS A&M UNIVERSITY

Jorge Vanegas



UNIVERSITY OF HOUSTON Lingguang Song



VILLANOVA UNIVERSITY Frank Falcone

# **Discussion Questions**

What recent changes have you made in your course offerings to address the issues?

What has CII offered recently and how has this been received?

What are some future plans or programs in place to address the gaps?

What are some of the metrics around graduates with this additional education?

# **QUESTIONS**

Please state your name, company affiliation and if appropriate, who you are directing your question to.



















# Wrap Up

### What is Being Accomplished

- More integration of Practicing Professionals and Academia in Course delivery
- Attention to the Professional Skills of Project Management
- Targeting industry specific project issues rather than only technical issues
- Society attention to integrate universities into solving the problems/closing the gaps
- Extensive use of on the job training including co-op programs
- Planned 4 year adjunct curriculum to support Project Management needs
- Aggressive willingness to listen to the industry needs and implemented changes
- High degree of receptivity from industry on existing programs

We are closing the gaps, but we need your help...

# **Call to Action**

### PLEASE USE THE CONFERENCE APP TO PARTICIPATE...

- In the app, go to Schedule
- Find the Closing the Knowledge Gap session
- Scroll down under Surveys, click Academia Engagement
- Be sure to **Finish** the survey.
- How would you like to get engaged in Closing the Gap between Academia and Industry?
  - Guest Lecturing (Specific University or General)
  - Adjunct Professor
  - Internships
  - Mentoring
  - Research
  - Participation in ECC Academia committee
  - Other

If you have not downloaded the app, please fill out the survey on your table.

# Perspective The 49th Annual ECC Conference