



New Jersey Institute of Technology/Newark College of Engineering and the National Academy of Construction with support from the National Academies of Science, Engineering and Medicine present a symposium to address:

## **Introducing and Embedding Safety Culture Concepts in Undergraduate Education**

New Jersey Institute of Technology/Newark College of Engineering  
Central King Building - Agile Strategy Lab

### **Symposium Agenda** **on Wednesday, November 30, 2022**

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|---------------|---|
| 8:00 to 8:45  | <b>Breakfast &amp; Networking</b>   |
| 8:45 to 9:00  | Moderator: <b>Patrick Natale, P.E.</b> , member of NJIT Board of Overseers and member of NAC<br><br><b>Welcome to NJIT: Robert Cohen</b> , Chair NJIT Board of Trustees   |
| 9:00 to 9:30  | <b>Introducing the Opportunity:</b><br><b>Wayne Crew</b> , NAC President and CEO <ol style="list-style-type: none"><li>1. Safety moment</li><li>2. Symposium structure</li><li>3. Construction industry safety statistics</li><li>4. Critical need to implement safety concepts and safety culture throughout all the construction industry</li><li>5. Role/contribution of undergraduate education</li></ol>   |
| 9:30 to 10:00 | <b>First Keynote Address: An Industry Perspective on the Benefits of a Safety Culture in Academia</b> <ul style="list-style-type: none"><li>• <b>Nick DeNichilo, P.E.</b>, President &amp; CEO (retired)<br/>Mott MacDonald, Vice Chair NJIT Board of Trustees, and member of NAC</li><li>• <b>NJ Senator Paul Sarlo, P.E.</b>, President and COO JM Sanzari Construction</li></ul> <ol style="list-style-type: none"><li>1. Benefits of a Safety Culture</li><li>2. Industry's expectation of recent graduates</li></ol> |

10:00 to 10:50

### **Panel 1 – Developing a Company Culture of Safety**

Moderator: **Patrick Natale, P.E.**

*Panelists:*

- **James Starace P.E.**, Chief Engineer PANYNJ, member NAC
- **Kanwer Khan, SVP**, EHS&S, Veolia North America - Municipal Water
- **Roly Acosta, Esq.**, President, Northeast Remsco Construction
- **Marjorie Perry**, Chair, NJIT Board of Overseers - President and Chief Executive Officer, MZM Construction & Management
- **Martin Downs, P.E.** President, J. Fletcher Creamer & Son, Inc.

Industry representatives describe their culture of safety and what they need and expect of new graduates

10:50 to 11:05

### **Break**

11:05 to 11:25

### **Second Keynote Address: A Dean's Perspective**

**Moshe Kam, PhD, P.E.**, NJIT Dean Newark College of Engineering

- Understanding of industry needs
- Curriculum and staff constraints
- Ability to meet industry's requirements

11:25 to 12:15

### **Panel 2 – Including Safety Culture Concepts in Existing and Future Course Structures**

Moderator: **Andrew Christ, P.E.**, NJIT SVP Real Estate Development and Capital Operations

*Panelists:*

- NJIT – **Lazar Spasovic**, Professor, Civil and Environmental Engineering
- Rutgers – **Ali Maher**, Director of CAIT and professor of civil and environmental engineering
- Villanova – **Frank Falcone**, Director, Professional Development & Experiential Education, Civil Engineering
- Columbia – **Feniosky Peña-Mora**, Director Center for Buildings, Infrastructure and Public Space & Faculty, Civil Engineering
- Oregon State University – **John Gambatese**, Faculty, Civil and Construction Engineering

Academic representatives describe how they have incorporated and integrated safety concepts into their course material or how they might do so.

12:15 to 1:15

## **Lunch and NJIT President's Address**

**Dr. Teik C. Lim, P.E.**

President of NJIT and Distinguished Professor of Mechanical Engineering

1:15 to 2:15

## **Breakout 1 – Providing Input to Educators**

**Deb Grubbe**, Owner & President, Operations and Safety Solutions, LLC,  
Past President of American Institute of Chemical Engineers  
and member of NAC

- Teaching culture vs. procedure
- Providing input to educators
- Leveraging results of this Symposium

2:15 to 2:45

## **Reports from Breakout 1**

2:45 to 3:00

## **Break**

3:00 to 4:00

## **Breakout 2 – Industry Leaders Engaging with Students and Faculty on Safety**

**Eric Musselman**, Chair of Civil and Environmental Engineering  
Department, Villanova University

- Ethics and safety nexus
- Culture of zero harm
- Positive intervention actions and reporting

4:00 to 4:30

## **Reports from Breakout 2**

4:30 to 4:50

## **Open Discussion – Next Steps**

Moderator: **Wayne Crew**, NAC President and CEO

- Publicizing/leveraging the results of this workshop
- Value of this program

4:50 to 5:00

## **Closing Comments**

**Nick DeNichilo**

5:00 to 6:00

## **Networking Reception in Eberhardt Hall**

*Hosted by NJIT*