

# 21<sup>ST</sup> CENTURY SAFETY

AGC OF NYS TECHNICAL CONFERENCE

WEDNESDAY, DECEMBER 10<sup>TH</sup>, 2014

1:15PM - 3:15PM

PRESENTED BY:

**CHRIS FULLER CSP**

TURNER CONSTRUCTION

**BRAD SIMON CHST**

HARRISON & BURROWES BRIDGE CONST

## PRESENTERS

- **Chris Fuller CSP**

- Turner Construction – Business Unit Safety Director
- 14 years in Construction
- 10 in Safety Management
- Board Certified Safety Professional
- Special Government Employee with OSHA VPP
- Active in numerous regional/ local safety committees



- **Brad Simon CHST**

- Harrison & Burrowes Bridge – Safety Coord.
- 10 years in Construction
- 12 in Safety Management
- Board Certified Construction Health & Safety Technician
- Active in numerous regional/ local safety committees



## WHY ARE YOU HERE?

- Is your company making you?
  - Needed someone to do the paperwork and be “responsible”
- Do you want to be here
  - Why?
    - ✦ You care about your coworkers’ well-being
    - ✦ You care about their families
    - ✦ You care about YOURSELF

## TIMES ARE A CHANGIN’

- 20<sup>th</sup> Century
  - Pre-1970
    - ✦ Accidents and Injuries were “cheap”
    - ✦ 1910: NY became first state to pass Workmen’s Compensation
      - Next 11 years, 44 more states passed similar
    - ✦ More companies began to pay attention to safety
  - 1970
    - ✦ Williams-Steiger Occupational Safety and Health Act was signed
      - Develop and Enforce job safety standards
      - Led to creation OSHA, NIOSH, and OSHRC
  - Post-1970
    - ✦ 1971: Occupational Safety and Health Administration (OSHA) was established
    - ✦ 1989: Excavation and Trenching Operations Standard
    - ✦ 1993: Confined Space Standard
    - ✦ 1996: Construction Scaffold Standard
    - ✦ 2001: Steel Erection Standard
    - ✦ 2009: Global Harmonization Proposed
    - ✦ 2010: Cranes and Derricks Standard

## TIMES ARE A CHANGIN'

- **21<sup>st</sup> Century**
  - New Standards
    - ✦ 2001: Steel Erection Standard
    - ✦ 2010: Cranes and Derricks Standard
    - ✦ 2012: Global Harmonization Standard
  - Event costs are rising
    - ✦ Employers have more to lose now than they did before
      - More \$\$\$ to do business (Insurance Premiums, doctor/lawyer fees, etc.)
      - Reputational damage
      - Missing out of jobs due to poor safety record
        - No Jobs → No \$\$\$

## WHAT CAN BE DONE?

- **ATTITUDE:**
  - Consistent verbal and demonstrated commitment to Safety expectations/culture in all aspects of execution.
- **LEADERSHIP:**
  - Clear, proactive (Safety) commitment in interface with clients, subordinates, colleagues and anyone else encountered daily.
- **PARTICIPATION:**
  - Committed engagement and follow through on-site risk assessment; planning, documentation, integration and inspection of controls, as well as progressive disciplinary action as required based on behaviors or conditions identified by self or other project team members.
- **SUPPORT:**
  - Commitment to sustain safety cultural development, performance and positive results.

## KNOWLEDGE & AWARENESS

- Some say “KNOWLEDGE is POWER”
- Some say “AWARENESS is POWER”
- Therefore...KNOWLEDGE is AWARENESS
  - If one is aware of something, they are more knowledgeable about that something
  - If one is knowledgeable about something, they will be more aware of it
- What is available to help us with both knowledge and awareness? Let’s look into our toolbox?

## OPENING THE TOOLBOX

- Information and Communication
  - Mobile Devices
  - Laptops
  - WIFI
- Safety Software
  - Computer based
  - Web based
- Safety Applications
  - Mobile Apps

## DRAWERS OF THE TOOLBOX

*TOOLBOX TALKS*

- Toolbox Meetings

*REGULATORY*

- Mobile Regs
- OSHA Safety
- OSHA News Reader

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*INSPECTION*

- Predictive Solutions/ SafetyNet
- Ladder Safety
- Iauditor
- Safety Observation
- Hazard Report

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*MEASUREMENT*

- TiltMeter
- Measures
- Sound Meter

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*PLANNING*

- Heat Safety
- Respiratory Protection
- Safety Coach
- RigIT
- Tornado
- Sling Calculator
- Pocket Lift Guide
- Chem Safety

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*DURING/ AFTER EVENT*

## TOOLBOX TALKS

● **“Toolbox Talks” – UIG Safe Work Apps**

- Cost: Free
- Live Demo

Back Topics List

Select Meeting Topic

- 01 Ladder Safety [\(Preview\)](#)
- 02 Manual Lifting [\(Preview\)](#)
- 03 Tripping Hazards [\(Preview\)](#)
- 04 Elevated Work Platforms [\(Preview\)](#)
- 05 First Aid Response [\(Preview\)](#)
- 06 Personal Protective Equipment (PPE) [\(Preview\)](#)
- 07 Electrocutation [\(Preview\)](#)

Current Meeting Cancel

**06 Personal Protective Equipment (PPE)**

**INTRODUCTION:**

The PPE Topic aims to review the issues associated with choosing the correct PPE when required.

By the end of discussion attendees will have a better understanding of which PPE is required for different tasks.

**MAIN DISCUSSION:**

Personal protective equipment (PPE) is designed to protect you from injury, which

Recording... 12s

Back Previous Meetings

**Previous Meetings**

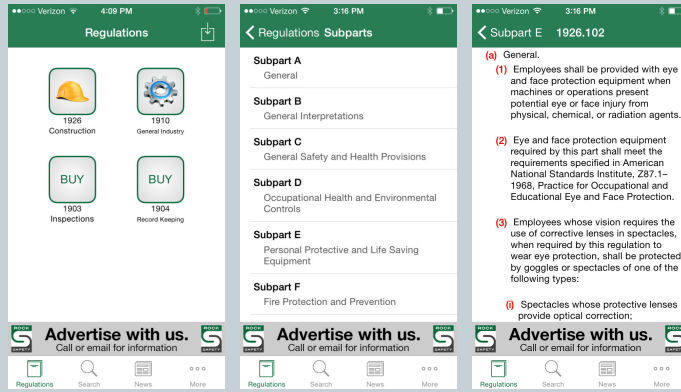
- 06 Personal Protective Equipment (PPE) [>](#)
- AGC Tech Conference
- Friday, October 17, 2014

Ok

# REGULATORY

## • “Mobile Safety Regulations” – Rock Safety Group

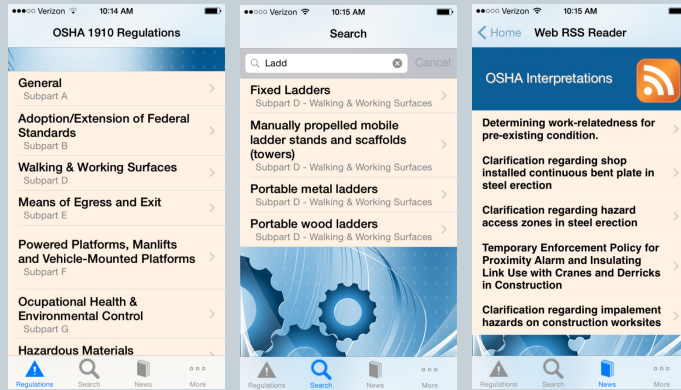
- Cost: Free
- Live demo



# REGULATORY

## • “OSHA Safety” – William Howard

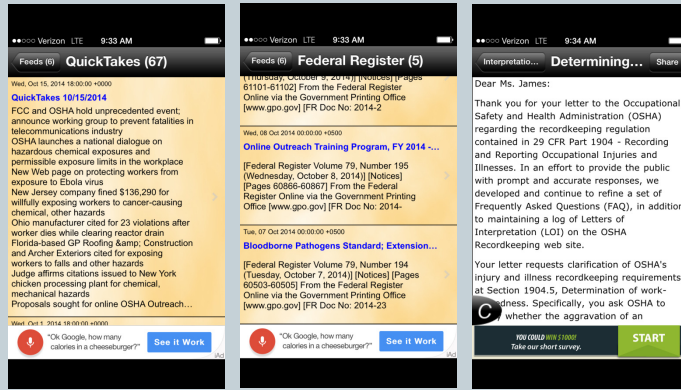
- Cost: Free
- Live demo



# REGULATORY

## • “OSHA News Reader” – Richard de los Santos

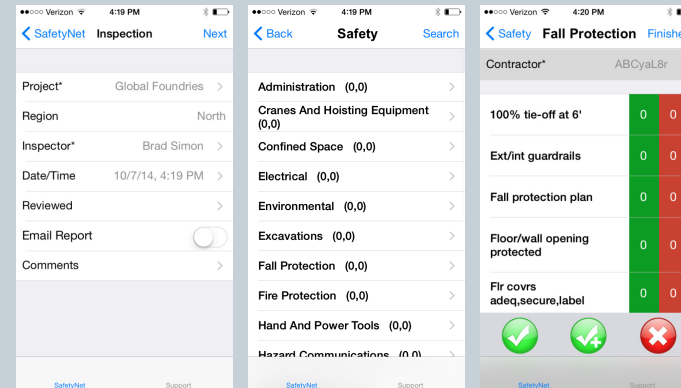
- Cost: Free
- Live demo



# INSPECTION

## • “SafetyNet” – Predictive Solutions

- Cost: Free with License Agreement
- Live Demo



# INSPECTION

## • “SafetyNet” – Predictive Solutions

- Cost: Free with License Agreement

Excavations		Safe	Unsafe
+	-	+	-
+	-	+	-
+	-	+	-
+	-	+	-
+	-	+	-
+	-	+	-
+	-	+	-
+	-	+	-
+	-	+	-
+	-	+	-
+	-	+	-

Observation - Unsafe Details

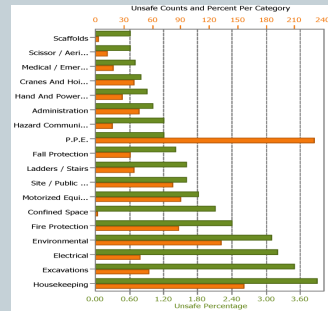
Inspector: [Name] | Date: [Date] | Location: [Location]

Category: [Category] | Severity: [Severity]

Comments: [Text Area]

Photo: [Image Placeholder]

Save



# INSPECTION

## • “Ladder Safety” – NIOSH

- Cost: Free
- Live Demo

**NIOSH**

**Too Steep**

84.4°

**NIOSH**

**Great!**

76.3°

**Ladder Safety Inspection**

**Surfaces**

Are they:

- Oily?
- Greasy?
- Rusty?
- Corroded?



# INSPECTION

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- **“IAuditor” – SafetyCulture**
  - Cost: Free; \$5/user/month
  - *Live Demo*







# INSPECTION

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- **“Safety Observation” – Health Safety Works**
  - Cost: Free
  - *Live Demo*

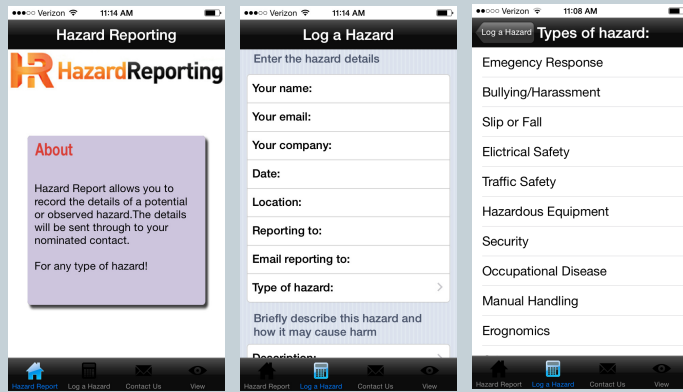





# INSPECTION

- “Hazard Report” – Health Safety Works

- Cost: Free
- *Live Demo*



# MEASUREMENT

- “TiltMeter” – Carlos Hernandez

- Cost: Free
- *Live demo*



## MEASUREMENT

- “Multi Measures” – Skypaw

- Cost: \$1.99
- Live demo



## MEASUREMENT

- “Sound Level Meter db” – Green Liston

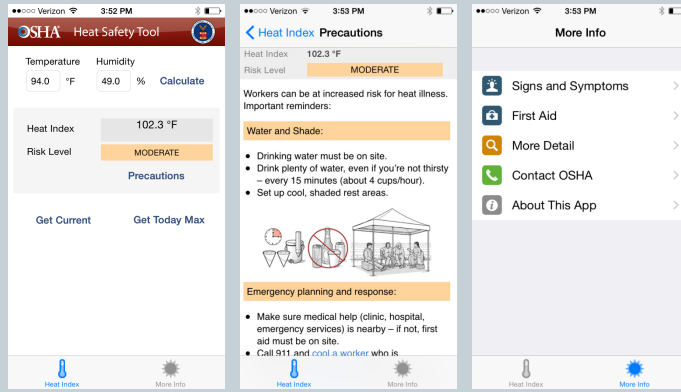
- Cost: Free
- Live demo



# PLANNING

- “Heat Safety” – OSHA

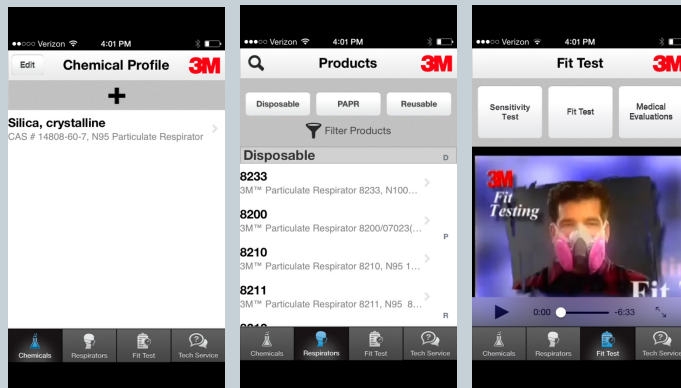
- Cost: Free
- *Live Demo*



# PLANNING

- “3M Respiratory Protection Resource” – 3M

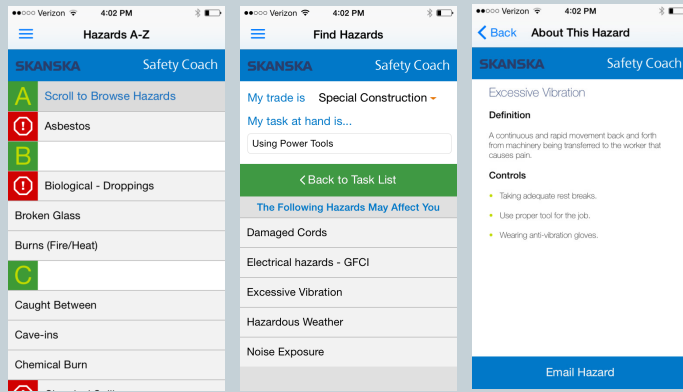
- Cost: Free
- *Live Demo*



# PLANNING

## • “Safety Coach” – Skanska

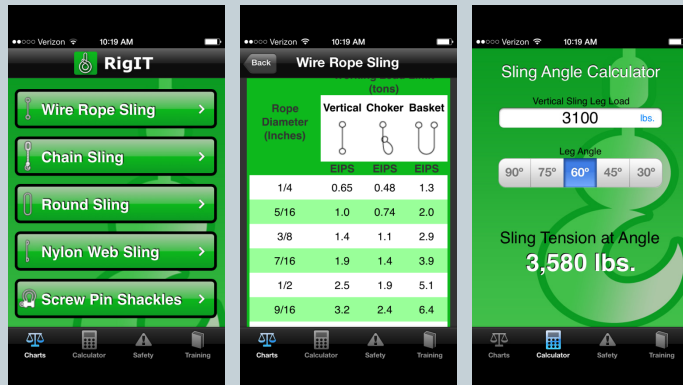
- Cost: Free
- *Live Demo*



# PLANNING

## • “RigIT” – Industrial Training International

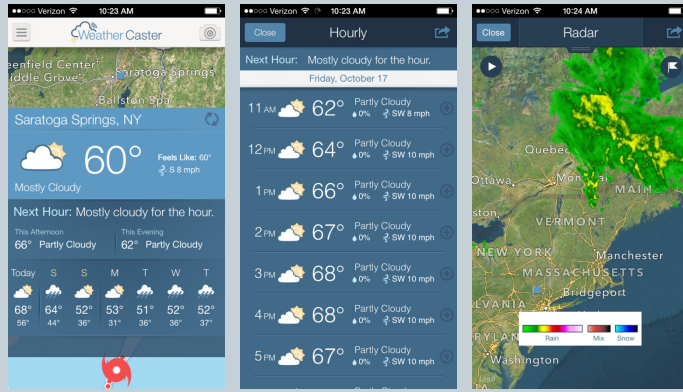
- Cost: Free
- *Live Demo*



# PLANNING

## • “WeatherCaster” – Belo Corp

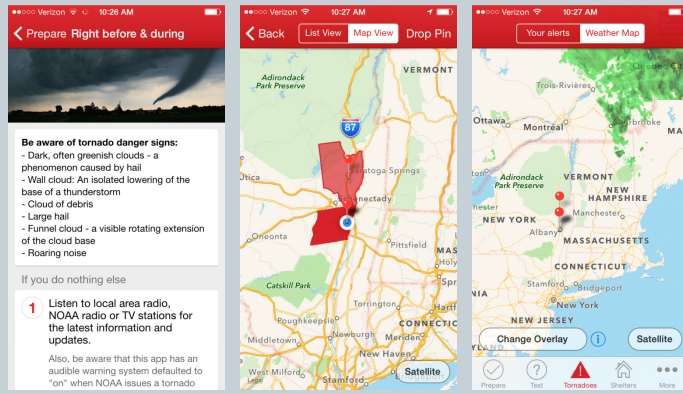
- Cost: Free
- Live Demo



# PLANNING

## • “Tornado” – American Red Cross

- Cost: Free
- Live Demo



## PLANNING

- “Sling Calculator” – Crosby Group
  - Cost: Free/ \$24.99
  - Live Demo

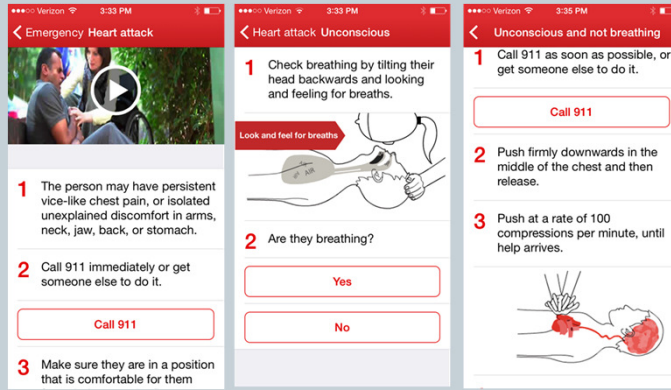
## PLANNING

- “Pocket Lift Guide” – Crosby Group
  - Cost: \$3.99
  - Live Demo

## DURING/ AFTER EVENT

### • “First Aid” – American Red Cross

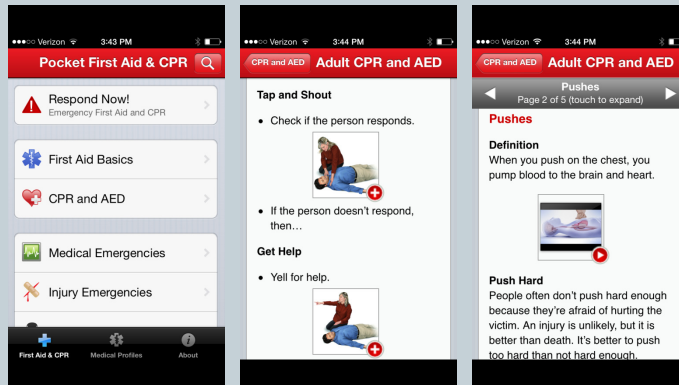
- Cost: Free
- Live demo



## DURING/ AFTER EVENT

### • “Pocket First Aid & CPR” – American Heart Assoc.

- Cost: \$1.99
- Live demo





## DURING/ AFTER EVENT

- “Incident Report” – Health Safety Works

- Cost: Free
- Live demo



The image shows three screenshots of the Incident Report app interface on an iPhone. The first screenshot is the 'Home' screen, which features the 'INCIDENT REPORT' logo and an 'ABOUT' section. The second screenshot is the 'Log Injury' form, which includes fields for 'Your name', 'Your email', 'Company', 'Date of injury', 'Location', 'Reporting to', 'Email of person reporting to', and 'Witnessed by'. The third screenshot is the 'Near Miss' form, which includes fields for 'Your name', 'Your email', 'Company', 'Date of incident', 'Exact Location', 'Reporting to', 'Email of person reporting to', and 'Phone of witness'.

## DOWNSIDERS

- **Change**
  - Is one of the dirtiest words in the English language
- **Technology scares people**
  - Older workforce
- **Cost**
  - Software
  - Training – Time/\$\$
  - Implementation – Time/\$\$
  - Updates
- **Accountability**
  - Personal
  - Corporate

## WHAT CAN BE DONE...

- **To affect Change?**
  - Demonstrate benefits through real-world examples
  - Mentor and support personnel
  - Understand the reasoning behind employee reluctance
  - Implement a change management program
- **To combat “Scary” Technology?**
  - Train the Trainer or program mentors
  - Offer short refresher courses on a regular basis
- **To control Cost?**
  - Pilot the program for better evaluation
  - Establish payment terms that fit with your organizational outlook
- **To promote Accountability?**
  - Personal
    - × Set goals
  - Corporate
    - × Set performance expectations
    - × Reward top performers
    - × Disincentives/ Discipline for poor performers

## QUIZ

## QUIZ 1

- Which State was 1<sup>st</sup> to pass laws pertaining to Workmen's Compensation?
  - A. Massachusetts
  - B. New York
  - C. Virginia
  - D. California

Answer: "B" - NEW YORK in 1910 (*hasn't changed much since*)

## QUIZ 2

- In what year was the Williams-Steiger Occupational Safety and Health Act signed?
  - A. 1969
  - B. 1979
  - C. 1970
  - D. 1994

Answer: "C" - 1970 by Richard Nixon

## QUIZ 3

- Knowledge is...
  - A. Blind
  - B. Dangerous
  - C. Power
  - D. None of the above

Answer: "C" - Power

## QUIZ 4

- What is/are downsides to new tools (technology)?
  - A. Experienced workers reluctant to change
  - B. Cost
  - C. Accountability
  - D. All the above

Answer: "D" – All the above can be looked at as a potential downside that needs to be evaluated

## QUIZ 5

- What can be done by a Company to hold people accountable?
  - A. Reward Top Performers
  - B. Disincentives for weak performers
  - C. Set performance expectations
  - D. All the above

Answer: "D" – All the above are ways of holding personnel accountable for their actions whether it be for using new tools (technology) or for production.

## !!!EXTRA CREDIT!!!

- True or False: This was the best safety presentation I have been to today starting at 1:15pm, hosted by 2 pretty awesome safety guys?
  - A. True
  - B. True

Answer: True, I mean come on

## HEY I MISSED THAT

- **Inquiries**

- Chris Fuller CSP

- ✦ [cfuller@tcco.com](mailto:cfuller@tcco.com)

- ✦ 518 956-4036

- Brad Simon CHST

- ✦ [bsimon@harrisonburrowes.com](mailto:bsimon@harrisonburrowes.com)

- ✦ 518 848-6028

## THANK YOU

### TIME AGENDA

1:15pm – Introductions

1:20pm – Main content

Reason for being here

Review of 20-25 Mobile/ Computer Applications (Apps) including how to find and live (on-screen) App demonstration

2:45pm – Quiz (5 multiple choice questions)

2:50pm – Questions & Answers

3:05pm – Closing

3:15pm – Dismissal

### BIOGRAPHIES

**CHRISTOPHER FULLER – CSP, BUSINESS UNIT SAFETY DIRECTOR: TURNER CONSTRUCTION CO.**

Chris Fuller has over 14 years of construction experience with the last 10 years dedicated to safety management within the manufacturing, healthcare and education market segments. He is a board Certified Safety Professional and is also a Special Government Employee within OSHA's Voluntary Protection Program. Chris is responsible for nearly 20 active construction projects in upstate NY that represent a trade contractor work force in excess of 1,500 workers. Chris actively participates in Dig Safely NY's Damage Prevention Council, the Capital Region Health and Safety Council and the AGC NYS safety committee.

**BRAD SIMON – CHST, SAFETY COORDINATOR: HARRISON & BURROWES BRIDGE CONSTRUCTORS Inc.**

Brad Simon has over 10 years of construction experience with over 12 years of safety management within the heavy highway, bridge, site development, infrastructure and renewable energy market segments. He is a board-certified Construction Health and Safety Technician. Brad is currently responsible for 8-10 active projects and development of improved safety and awareness policies and training. Brad actively participates in Dig Safely NY's Damage Prevention Council and recently was Co-Chairman (Highway) of the AGC NYS safety committee.