## The ECC Academy Awards

## INNOVATIVE TECHNOLOGY SOLUTIONS

"Recognizing Technologies
Which are Pioneering Our
Ability to Innovate and Add
Value in Our Project Industry"





#### **Re**defining Our Industry

## **Innovative Technology Solutions**

**Session Moderator** 



#### **Don Runaldue**

ECC Director, ExxonMobil, Project Executive





## **Re**defining Our Industry

## **Innovative Technology Solutions**

Session Presenter



Joseph Morray, Jr.

ECC Executive
Advisory Committee
Trinity Technologies,
President





Redefining Our Industry



Academy Awards of Innovative Technology



## Redefining Our Industry



## The Innovative Technology Committee



Tex Carter,
Vice President Sales, Washington Group



Patrick Holcomb, Executive Vice President - Intergraph



Nicole Testa,

Deputy Director of FIATECH



Gary Chanko,

Director – Construction Development – FLUOR





## **Innovative Technology Solutions**

#### **MAJOR PROJECT CATEGORIES:**

Safety and Training Solutions

Engineering Solutions

Wireless RFID and Sensor Technologies

Construction and Construction Planning Solutions







**Tex Carter** 

Vice President Washington Group





**Re**defining Our Industry

1st Nominee:

Crane Simulator

**Zachry Construction** 





2<sup>nd</sup> Nominee:

## Safety Blueprint

Construction Users Roundtable (CURT)





3rd Nominee:

Automated Hazop

HAZID





## **Audience Input**

## Safety Technology Solutions

Can you envision applying these applications on your projects in the next twelve months?

1. Immediate possibilities for one or more

50%

2. Need some more evaluation but encouraged

45%

3. Solutions still need maturing









#### **Patrick Holcomb**

Executive Vice President, Intergraph





## Redefining Our Industry

1st Nominee:

## Digital Isometrics

Intergraph Corporation





2nd Nominee:

## Design One, Build Many

VECO / Bentley Systems







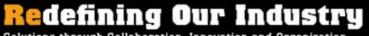
3rd Nominee:

## Real Time Visualization

VR Context







## **Audience Input**

## **Engineering Solutions**

Has technology advanced today to a level where every project needs to use these tools to ensure effective design and construction?

1. You'd be stupid not to use the technologies

49%

2. I'm still on the fence.
I need another year to listen to the ECC panels

29%

3. Current engineering processes make it difficult to use these technologies

22%







Nicole Testa

Deputy Director, FIATECH



**39TH** 

Redefining Our Industry

1st Nominee:

## Concrete Maturity Sensor

**ENGIUS** 





2<sup>nd</sup> & 3<sup>rd</sup> Nominee:

# RFID for Material and Supply Chain Management

Motorola and Savi Technology





4th Nominee:

## Wireless Mesh Networks

**CROSSBOW TECHNOLOGY** 





5th Nominee:

## Underground RFID Markers

3M DYNATEL







## **Audience Input**

#### Wireless RFID and Sensor Technologies

- Do you see the use of RFID and sensor technologies substantially changing how we do work in the future?
  - 1. This is a big deal and will impact construction considerably

63%

- 2. I'm on the fence and will need to come to the ECC conference a few more times 27%
- 3. I don't see the use for RFID's 10%







#### **Gary Chanko**

Director,
Construction Development –
FLUOR





## Redefining Our Industry

1st Nominee:

## Advanced Construction Tools

Hilti





2nd Nominee:

## Construction Planning with Modularization

Alcan / Bentley







3rd Nominee:



Quantapoint / ExxonMobil





4th Nominee:

# GPS Systems for Advanced Construction

Trimble





5th Nominee:

# Advanced Construction Planning

Common Point







## **Audience Input**

# Construction and Construction Planning Will these tools improve the overall construction process?

1. Considerably, as the planning processes are key to a successful project

92%

2. I like the tools, but I'm not sure that it will affect the field effectiveness



3. the tools still have a way to go







## **Audience Input**

Is there at least one new technology solution that you have seen here today to pursue on your next project?



92%











## Redefining Our Industry Solutions through Collaboration, Innovation and Organization

## **Innovative Technology Solutions**

Thanks to. . .

3M Dynatel

Alcan

**AVEVA** 

**Bentley Systems** 

BP

**Common Point** 

ConocoPhillips

**Crossbow Technology** 

**CURT** 

**DuPont** 

**Engius** 

ExxonMobil

**FIATECH** 

Fluor

HAZID

HILTI

Intergraph

Motorola

Quantapoint

Savi Technology

**Trinity Technologies** 

Trimble

**VECO** 

**VRContent** 

Washington Group

**Zachry Construction** 





