



Technology in Construction Symposium & Lab

Tuesday, November 6, 2018

Register: 8:45 AM Program: 9 AM - 1 PM

Judicial Council of California, Veranda ABC, 2860 Gateway Oaks Dr. Suite 400, Sacramento, CA 95833

▶ HOW TO IMPLEMENT NEW IT IN YOUR ORGANIZATION

▶ USING TECHNOLOGY IN CONSTRUCTION

Virtual Reality (VR) Uses - HTC Vive

- Preconstruction (owner experience)
- Design Coordination
- Safety (walkthrough project before building, Planning, Safety, Assess Risk)
- Communication (Visual communication, easy to use, inexpensive)

Augmented Reality (Hololens) - Microsoft Hololens

- Preconstruction (space and geometry awareness and speed up design)
- Quality Control (As-built ...)
- Walkthrough Underground Civil (mitigate utility hits)
- Walkthrough Construction Validation (compare coordinated model vs. installation)
- FM data (view of Asset type parameters)

Laser Scanning - BLK 360

- Automated modeling
- Drones

Pattern-based Design

- Data
- Integration

Model Based Quantity Takeoff and Cost Estimating

- Speed up design review
 - Kit of Parts
 - Automated takeoff from conceptual design to construction
- Test fit out
- Trade engagement (lower contingency, better bid coverage and stronger bids)

FM Data

- What really works?
- Data Management

- QA/QC
- Dynamo for FM Data

Owner Perspective

- Where we are today?

How field Technology Is Used On Construction Projects Today

- Cases
- Current projects in the region

Benefits of Field Technology for Owners

Q & A

▶ VIRTUAL REALITY LAB AFTER THE PRESENTATIONS

PRESENTERS:

Anu Saseendran, MS, Senior Researcher
School of Sustainable Engineering & The Built Environment, Arizona State University

Patrick Krzyzosiak
Director of Virtual Design Construction
Rudolph and Sletten, Inc.

Tad Costerison AIA LEED AP NCARB
Principal, A Design + Consulting

Joseph O'Toole, Project Manager
Porter Consulting LLC

Dylan Paul, Associate Director
University of California, Office of the President



REGISTRATION FORM
SAVE: Bring your Team!

TEAM LIST

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HOSTED BY: Judicial Council of California
 2860 Gateway Oaks, Dr., Suite 400, Veranda Rooms ABC
 Sacramento, CA 95833

- WCCC Member Single** **\$75**
- WCCC Member TEAM (3+)** **\$65**
- NON - Member Single** **\$89**
- NON - Member TEAM (3+)** **\$79**

REGISTER NOW! Deadline 11/2/18

- ▷ E-MAIL: vann@wccc.org (you may call in CC#)
- ▷ PHONE: (916) 599-8020
- ▷ MAIL: Call or E-mail Reg Form **THEN**
 Mail copy/team list/check **postmarked by 10/26**

To: Western Council of Construction Consumers
 1731 Howe Ave. #613, Sacramento, CA 95825

▶ TEAMS: Complete Team List with all info for each registrant.

REGISTRANT OR TEAM CONTACT:

No-shows & cancellations after **10/29/18** are subject to full fee. You may send Substitutes.

Name _____ Title: _____ Cell: _____
 Firm/ Agency: _____ E-mail: _____ Wk. Ph: _____
 Address: _____ City/ST/ZIP: _____

Name on credit card: _____ Card #: _____ Exp: _____ Sec. Code: _____

Billing Address: _____

Signature: _____ (Rev 9/30)

Name _____ Phone: _____

Firm/ Agency: _____

Title: _____

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Name _____ Phone: _____

Firm/ Agency: _____

Title: _____

E-mail: _____

of Registrants: _____ X Fee \$ _____ = \$ _____ TOTAL DUE

PAYMENT METHOD: VISA MC Discover AMEX Check (Check # _____)

(Only credit card payment accepted after 10/26)