



## 2016 SYMPOSIUM PROGRAM

### Sunday, October 16, 2016

#### Afternoon:

4-5 pm

5:00 pm

5:15-6 pm

6-8 pm

#### LOA Training and Certification

Registration, Exhibit open

Welcome, Kick-off Announcements

Keynote

Reception & Networking

### KEYNOTE SPEAKER:

**Errol Plata, LEED AP + BD&C,**

of NASA's Langley Research Center's (LaRC) BIM Facilities Manager.

From the stars to the earth – NASA is now using the USBID'd LOA! Come listen to how they are using it and why? The results will be telling. Errol works the Center Operations Directorate's (COD) GIS Team where he manages the Center's Revit Building Model inventory. He was hired to develop and implement a Strategic BIM Plan for NASA LaRC. The Plan involves intuitive web based 3D viewers so everyone at LaRC from Engineers to Maintenance technicians can easily view the 3D building models, and easily find the assets that need maintenance.

Errol works with NASA LaRC's New Construction and Renovation Projects and advises on BIM and LEED related items for these Projects. He also works with the GIS group, and other groups

at NASA LaRC to support their BIM needs as related to meeting goals to efficiently maintain their large inventory of buildings and all the systems within for Operations and Maintenance.

## Monday, October 17, 2016

*Monday's events include both breakfast and lunch. The day ends with a closing reception, co-hosted with BIMForum.*

**7 -8:15 am**                    **Registration/Breakfast**

**8:15 am**                      **Welcome, Introduction**

**8:30 - 10 am**                **Session 1**

Indoor GPS can you say IMPOSSIBLE?!?! **Antti Korhonen**, President and CEO of Redpoint Positioning will guide us in **"Indoor GPS is a new market category that will transform the way the construction industry monitors its operations - for improved safety, efficiency, and analytics"**.

How lean are you? How dare we ask this you might say! Well **Brewton Couch**, Technical Marketer, for MOCA Systems will explain how we can all be leaner.....in our PROJECTS. In **"Establishing a Virtual Collaborative Environment - Lessons from Lean Planners"**, the whole premise behind lean planning is for project teams to collaborate in the development and execution of their project plan. They plan together, work together and learn together.

**"Real World Libraries: Point Clouds and the Revit Family Editor"** How do you handle Pre-fabrication? Thanks to advances in 3D capture, design and print technology, building prefabrication is now a major trend for new construction. **Scott Diaz**, FARO Technologies will lead us on how laser scanning is influencing pre-fab paneling workflows and will take a closer look within a real client's journey from tape measurement to 3D laser scanning.

**10:30 - 12 pm**                **Session 2**

Did you just read safety???. Are your people safe in the work environment? Are there any hazardous materials? What you need to know about **"Old, New and Revised Regulations That Create Hidden Liability in the Built Environment Due to Hazardous Materials"**. **Michael Sharp** is the Director of Training at UC Berkeley and CEO of Hazard Management Services.

What is COBie? **"Why COBie and Why Now?"** We take for granted the innovations we marveled at a few short years ago. In the near future, ASCII for assets, or COBie, will be one of these innovations. **Dr. William (Bill) East** is an internationally known construction management researcher whose career spans the areas of planning and scheduling, quality management, and

building information modeling. While with the U.S. Army Corps of Engineers, Bill created the Corps' Standard Data Exchange Format (SDEF) and now has invented the Construction-Operations Building information exchange (COBie)—an international standard that squeezes profits from an otherwise wasteful construction handover process. Dr. East will show us that we've come to accept the need to capture and recapture building information over and over again as "normal" and illustrates why simply buying new software won't do anything to fix the situation.

### **"How does Reality Capture Drive Innovative Approaches in Building**

**Construction"? Cathi Hayes**, of Leica Geosystems, will answer questions like: Reality capture, is it terrestrial laser scanning? Capturing reality in the form of photos and converting to meshes or point clouds? Or is it something more? Cathi will show us how reality capture solutions are rapidly expanding to include technologies such as wearable reality capture devices, autonomous mobile mapping and ground-breaking technology that captures the reality of construction status and conveys that information to project dashboards and visual model reports.

**12 - 1:30 pm**            **Hosted Lunch, Networking, Exhibits**

**1:30 - 3 pm**            **Session 3**

Live long and prosper so said Mr. Spock. How many times have you heard this? Well **Jennifer Tsang**, the Logistics and Events Marketing Coordinator at the Academy of Learning Career College will guide us into the final frontier and explain the **"Things That Mr. Spock Taught Us about BIM"**.

Ever wonder **"How the Construction Industry Is Utilizing BIM"**? Is BIM in the dark corners of our minds or is it mainstream? **Timothy Porter**, Director of VDC for the Pike Company will show us how BIM has gone mainstream and provide a robust appreciation for the unique roles that 'paper' documentation and digital documentation play within the building process.

**"How might specialists in historic preservation apply emerging documentation technologies to their benefit"**? AND what would their best practices be? Brittany K.L. Mabry from GOOGLE will lead us through the USIBD's work along heritage preservation standards, HBIM integration and the broad fascination with virtual preservation and integrating 3D visualization with antiquity.

**3:30 - 4:45 pm**            **Session 4**

**"A review of USIBD's LOA document, and BIMForum's LOD, and how they work together."** This session will address how the USIBD's New Level of Accuracy (LOA)

Specification was referenced in relationship to the AIA-AGC BIM Forums Level of Development (LOD) Specification for defining the owner's BIM requirements. It will provide an update of the current trends as well as providing an in-depth review of the new BIM Forum LOD Specification and the UISBD LOA Specification. Other key topics the session will address are how the owners viewed ROI on the requirements, internally made the case for the new technology investment, trained their internal staff, and how they managed large data sets of reality capture data. The presentation will address how these two specifications are used define scope, schedule and budget for the referenced reality capture work as well as how they reduce risk. This will include the latest update to the BIM Forum LOD Specification.

As the AECO industry continues in its adoption and implementation of BIM, participants frequently struggle to speak the same language with regards to how models are developed. Their frustration is often compounded whenever models need to accurately represent existing conditions. As a result, two organizations have made it their mission to ease the pain through the creation of standard specifications that define Level of Accuracy (LOA) and Level of Development (LOD) of models. The U.S. Institute of Building Documentation's LOA Specification and the BIM Forum's LOD Specification provide a framework that can easily be incorporated into projects of any size and complexity. Both specs incorporate the Construction Specifications Institute's (CSI) Unifomat resulting in ease of integration and interoperability between the two standards.

**4:45-5:00 pm**

**Conclusion, followed by Reception/BIMForum Arrival Party**



**UISBD**<sup>TM</sup>  
U.S. Institute of  
BUILDING DOCUMENTATION