

APRIL 3-5, 2017 | MARRIOTT MARQUIS | HOUSTON, TEXAS

The 2018 Conference Program will be posted in January.

MONDAY, APRIL 3

PRINT

Trimble is hosting a pre-conference workshop on Monday from 9:00 am to 12:30pm. Register now by clicking on More Details.

PRODUCT PREVIEWS

9:30 AM - 11:45 AM

Learn about the newest supplier advances and best practices for specifying, planning and executing projects in Product Previews presented by exhibiting companies.

Track I - Houston Ballroom I - II

Track II - Houston Ballroom III

NATIONAL GEODETIC SURVEY

How to Plan for the 2022 National Geodetic Survey (NGS) Datum Change

10:00 AM - 11:00 AM

ROOM: HARRIS

[Allen Nobles - Nobles Consulting Group, Inc.](#)

1:30 PM EXHIBITION OPEN (CLOSES AT 6:30 PM)

OPENING SESSION & KEYNOTES

Welcome & Introduction

1:30 PM - 1:35 PM
HOUSTON BALLROOM IV - VII
[Lisa Murray - SPAR 3D](#)

The Emerging Power of Smart Cities and the Role of 3D, UAVs and the Conquering of Space

1:35 PM - 2:00 PM
HOUSTON BALLROOM IV - VII
[Paul Doherty - the digit group, inc.](#)

The Future of Robotics Applications: From Oil & Gas to Medical Marvels

2:00 PM - 2:20 PM
HOUSTON BALLROOM IV - VII
[Aaron T. Becker - University of Houston](#)

Metrics for Infrastructure & Construction

2:20 PM - 2:40 PM
HOUSTON BALLROOM IV - VII
[Geoff Zeiss - Between the Poles](#)

A Vision for Project Execution with 3D Technology

2:40 PM - 3:00 PM
HOUSTON BALLROOM IV - VII
[Ashish Shah - Fluor Corporation](#)

3:00 - 3:30 PM BREAK

AEC AND VDC

Applications with Drones, Mobile Device 3D Metrology, and Matterport Virtual Reality

3:30 PM - 3:55 PM
HOUSTON BALLROOM I - II
[Paul Tice - ToPa 3D](#)

Construction Verification: A New Workflow for BIM Coordination

3:55 PM - 4:20 PM
HOUSTON BALLROOM I - II
[Kelly Cone - ClearEdge3D, Inc.](#)
[Tim Malys - DPR Construction](#)
[David Epps - Winter Construction](#)

Applied Virtual Reality - Demonstration

4:20 PM - 4:45 PM
HOUSTON BALLROOM I - II
[Mark Radell - McCarthy Building Companies, Inc](#)
[Alex Cunningham - McCarthy Building Companies, Inc.](#)

Panel Discussion with Presenters Above

4:45 PM - 5:00 PM
HOUSTON BALLROOM I - II

TRANSPORATION

Denver RTD FasTracks Project: Extracting Features and Incorporating into GIS for Asset Management including Positive Train Control (PTC)

3:30 PM - 3:55 PM
HOUSTON BALLROOM IV - VII
[Kristopher Andersen - Jacobs Engineering](#)

CALTRANS 3D Transportation Infrastructure: Integrating 3D Sensing to Processing and Visualization

3:55 PM - 4:20 PM
HOUSTON BALLROOM IV - VII
[Kourosh Langari - California Department of Transportation](#)

Panel Discussion with Presenters Above

4:45 PM - 5:00 PM
HOUSTON BALLROOM IV - VII

INTRO TO 3D TECHNOLOGIES

Review of Available 3D Technology Options

3:30 PM - 5:00 PM
HOUSTON BALLROOM III
[Larry Kleinkemper - Lanmar Services](#)
[Lisa Henstridge - Towill, Inc.](#)
[Larry Horning - PVW Marketing, LLC](#)

Capturing 3D Data

- Scanners (low-end to high-end)
- Sensors (IR/TI, GPR, methane, biosensors)
- LiDAR, photogrammetry
- Cameras & video

Processing

- Feature extraction tools

- Large data management & integration
- AI, Machine Learning
- Connecting to IoT

Visualization & Deliverables

- AR/MR, VR, holograms
- Windows 10/Creator
- 3D printed output
- Disseminating across the web (TruView)

5:00 – 6:30 PM HAPPY HOUR ON EXHIBIT FLOOR SPONSORED BY

TUESDAY, APRIL 4

8:00 – 9:00 AM BREAKFAST

8:00 AM EXHIBITION OPEN (CLOSES AT 5:00 PM)

PLENARY: AR/MR/VR & THE FUTURE OF WEARABLES

Big Data Immersion Using VR

9:00 AM - 9:20 AM

HOUSTON BALLROOM IV - VII

[David Smith - Wearality Corporation](#)

Vision for Future of AR/MR/VR

9:20 AM - 9:40 AM

HOUSTON BALLROOM IV - VII

[Aviad Almagor - Trimble](#)

A Vision for AEC: CAVE, AR/MR/VR and Beyond

9:40 AM - 10:00 AM

HOUSTON BALLROOM IV - VII

[Cody Nowak - Martin Bros.](#)

Panel Discussion with Presenters Above

10:00 AM - 10:30 AM

HOUSTON BALLROOM IV - VII

10:30 – 11:00 AM COFFEE BREAK**MINING & AGGREGATES****Long Range Scanning by utilizing Full Waveform Processing in Open Pit Environment**

11:00 AM - 11:25 AM
HOUSTON BALLROOM I - II
Pep Kanda – De Beers Group
Thomas Gaisecker – RIEGL

Art of Presentation of Sound Science – HoloLens Demonstration

11:25 AM - 11:50 AM
HOUSTON BALLROOM I - II
Gerald Magnusson – BGC Engineering Inc.

Panel Discussion with Presenters Above

12:15 PM - 12:30 PM
HOUSTON BALLROOM I - II

INDUSTRIAL FACILITIES/ASSET MANAGEMENT**LiDAR and UAVs in Virtual Asset Management**

11:00 AM - 11:25 AM
HOUSTON BALLROOM IV - VII
Paul Ramirez – Unmanned Ad-Hoc Industries, Inc.

Telecom Fiber Design-Build Project Case Study

11:25 AM - 11:50 AM
HOUSTON BALLROOM IV - VII
Nik Smilovsky – BPG Designs

Utilizing Large Datasets Inside the facility: Lessons Learned Case Study

11:50 AM - 12:15 PM
HOUSTON BALLROOM IV - VII
John Jurewicz – Walbridge Technology

Panel Discussion with Presenters Above

12:15 PM - 12:30 PM
HOUSTON BALLROOM IV - VII

INTRO TO 3D TECHNOLOGIES**Business Drivers for Use of 3D Technologies**

11:00 AM - 12:30 PM
HOUSTON BALLROOM III
Chad Studer – NOAR Technologies
Peter Brennan – City of Wilmington, NC
Ted Mort – Eco3D
Matthew Craig – Assemble Systems, LLC

–Enhances safety:
here's the proof

–ROI & Metrics

–Strategies for
obtaining management
buy-in

12:30 – 2:00 PM LUNCH**VIRTUAL DESIGN & CONSTRUCTION (VDC)****Implementing Innovation for All Stakeholders: From BIM to AI and VR...and Making it Fit with Your Workflow**

2:00 PM - 2:25 PM
HOUSTON BALLROOM I - II
Anton Dy Buncio – VIA Technik
Carlos Velazquez – Epic Scan Ltd

AR & VR for Building Projects

2:25 PM - 2:50 PM
HOUSTON BALLROOM I - II
Alan Robles – Gensler
Scott DeWoody – Gensler

Live Demonstrations of AR & VR by Martin Bros.

2:50 PM - 3:15 PM
HOUSTON BALLROOM I - II
Christopher Baze – Hawaiian Dredging Construction Company
Cody Nowak – Martin Bros.

SECURITY, LAW ENFORCEMENT & FORENSICS**Case Studies of 3D Technologies at Larimer**

2:00 PM - 2:25 PM
HOUSTON BALLROOM IV - VII
Brian Wangler – Larimer County Sheriff's Office

Justice for Cooper Harris

2:25 PM - 2:50 PM
HOUSTON BALLROOM IV - VII
David Dustin – President, IAFSM

Augmented Reality (AR) as Applied for Forensic Investigations – Demonstration

2:50 PM - 3:15 PM
HOUSTON BALLROOM IV - VII
Uwe Wössner – High Performance Computing Center, Stuttgart University

INTRO TO 3D TECHNOLOGIES**In-House or Outsourcing your 3D Technologies: Considerations**

2:00 PM - 3:30 PM
HOUSTON BALLROOM III
Larry Kleinkemper – Lanmar Services
Jody Lounsbury – Control Point Associates
Kevin Kianka – Haag3D
Sam Billingsley – Ragan Smith Associates

–COTS: popular tools,
pros and cons

–Real costs of
modifying COTS

**Panel Discussion with Presenters
Above**

3:15 PM - 3:30 PM
HOUSTON BALLROOM I - II

**Panel Discussion with Presenters
Above**

3:15 PM - 3:30 PM
HOUSTON BALLROOM IV - VII

**-Outsourcing: costs
and considerations**

3:30 - 4:00 PM COFFEE BREAK

HISTORIC PRESERVATION

**Virtual Preservation of the Historic
Cologne Cathedral**

4:00 PM - 4:25 PM
HOUSTON BALLROOM I - II
[Douglas Pritchard - University of
Glasgow/Johns Hopkins University](#)

**Heritage Management and Digital
Collections Development Using 3D and
Imaging Approaches**

4:25 PM - 4:50 PM
HOUSTON BALLROOM I - II
[Lori Collins - University of South
Florida](#)
[Travis Doering - University of South
Florida](#)

**Panel Discussion with Presenters
Above**

4:50 PM - 5:00 PM
HOUSTON BALLROOM I - II

INDOOR & PORTABLE MAPPING

Options for Indoor/Mobile SLAM

4:00 PM - 5:00 PM
HOUSTON BALLROOM IV - VII

Presentations include

Laser-based:

4:00 - 4:05 Amir Rubin,

Paracosm

4:05 - 4:10 Kevin

Dowling, Kaarta

4:10 - 4:15 Mark Reid,

GeoSLAM

4:15 - 4:20 Doug Flint,

Navis

Close-range IR-based:

4:20 - 4:25 Tom Greaves,

DotProduct

4:25 - 4:30 Sanjay Khare,

Occipital

INTRO TO 3D TECHNOLOGIES

**Contracting for 3D Technology
Services: RFQ Tips and Pitfalls to
Avoid**

4:00 PM - 4:15 PM
HOUSTON BALLROOM III
[Kevin Kianka - Haag3D](#)

**Know What You Want: How to Start a
Successful Scan-to-BIM Project**

4:15 PM - 4:30 PM
HOUSTON BALLROOM III
[Margarita Leonova - Lanmar
Services](#)

**Panel Discussion with Presenters
Above**

4:30 PM - 5:00 PM
HOUSTON BALLROOM III

6:00 - 8:00 PM SPAR BQ EVENT AT THE 8TH WONDER BREWERY

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WEDNESDAY, APRIL 5

8:00 – 9:00 AM BREAKFAST**8:00 AM EXHIBITION OPEN (CLOSES AT 4:00 PM)****PLENARY: EXPERTS VIEW INTO THE FUTURE – WHAT'S NEXT FOR 3D TECHNOLOGIES****Experts View into the Future – What's Ahead for 3D Technologies**

9:00 AM - 9:20 AM

HOUSTON BALLROOM IV - VII

[Greg Bentley - Bentley Systems, Inc.](#)**Vision for 3D Technologies**

9:20 AM - 9:40 AM

HOUSTON BALLROOM IV - VII

[Burkhard Boeckem - Hexagon Geosystems](#)**Unexpected Impact of Small Scanners Across Market Segments**

9:40 AM - 10:00 AM

HOUSTON BALLROOM IV - VII

[Shabtay Negry - Mantis Vision](#)**Panel Discussion with Presenters Above**

10:00 AM - 10:30 AM

HOUSTON BALLROOM IV - VII

10:30 – 11:00 AM BREAK**CIVIL INFRASTRUCTURE****Multi Sensor Approach to Integrating High Resolution Data Above and Below Water**

11:00 AM - 11:25 AM

HOUSTON BALLROOM I - II

[Eric Barden - Spicer Group Inc.](#)**Reality Modeling for the Entire City of Helsinki**

11:25 AM - 11:50 AM

HOUSTON BALLROOM I - II

[Jarmo Suomisto - City of Helsinki](#)[Aidan Mercer - Bentley](#)**3D Information for Smart Cities**

11:50 AM - 12:15 PM

HOUSTON BALLROOM I - II

[Andria Shaman - Woolpert](#)**Panel Discussion with Presenters Above**

12:15 PM - 12:30 PM

HOUSTON BALLROOM I - II

UNIQUE APPLICATIONS**From 3D Printed Building to Self-Sustaining Energy Generation: The AMIE Project**

11:00 AM - 11:25 AM

HOUSTON BALLROOM IV - VII

[Andrew Obendorf- AIA; Skidmore, Owings & Merrill \(SOM\) LLP](#)**4D Cities in the Cloud**

11:25 AM - 11:50 AM

HOUSTON BALLROOM IV - VII

[Ro Gupta - Carmera](#)**New Approach to 3D Modeling: NCAA Division I Cross Country Course**

11:50 AM - 12:15 PM

HOUSTON BALLROOM IV - VII

[Raymond Mandli - Mandli Communications](#)**Panel Discussion with Presenters Above**

12:15 PM - 12:30 PM

HOUSTON BALLROOM IV - VII

ADVISORY BOARD PANEL**Attendees – Bring Your 3D Technology Questions & Challenges!**

11:00 AM - 12:30 PM

HOUSTON BALLROOM III

Lon Addison – Strategic Consulting**Steve Bracy** – Builtr Labs**Matthew Craig** – LFM

Software

Mike Davies – Surphaser**Phil Davis** – BNSF Railway**Dennis I. Hirota** – Sam O. Hirota, Inc.**Steve Hutsell** – US Army

Corps of Engineers –

Seattle District

Faheem Khan – Leica**Dave Lafferty** – Scientific Technical Service**Eugene Liscio** –

International Association

Of Forensic And Security
Metrology (IAFSM)

Omar-Pierre Soubra -
Trimble

Dave Truch - BP
International

Chris Zmijewski - Haag
3D Solutions

12:30 – 2:00 PM LUNCH

INDUSTRIAL FACILITIES/INSPECTION

UAVs for Inspection and Beyond

2:00 PM - 2:25 PM
HOUSTON BALLROOM I - II
[John Brown](#) - General Motors
Company
[Chad Studer](#) - NOAR Technologies

Underwater Inspections: Latest Applications Using Subsea Photogrammetry & Laser Technologies

2:25 PM - 2:50 PM
HOUSTON BALLROOM I - II
[Arnauld Dumont](#) - Dimensional Eye

Panel Discussion with Presenters Above

2:50 PM - 3:00 PM
HOUSTON BALLROOM I - II

SURVEYING & MAPPING

Real-time Sensing and Autonomy for Drone-based Lidar SLAM

2:00 PM - 2:25 PM
HOUSTON BALLROOM IV - VII
[Stefan Hrabar](#) - CSIRO

Photogrammetry via UAV to GIS: Brownfield Case Study

2:25 PM - 2:50 PM
HOUSTON BALLROOM IV - VII
[April Barkasi](#) - CEDARVILLE
Engineering Group

Panel Discussion with Presenters Above

2:50 PM - 3:00 PM
HOUSTON BALLROOM IV - VII

UNIVERSITY LIGHTENING ROUND

Latest 3D Technologies in Development

2:30 PM - 3:00 PM
HOUSTON BALLROOM III

3:00 – 3:15 PM BREAK

CONFERENCE WRAP-UP: KEY TAKEAWAYS

Discussion with Advisory Board Members; all are welcome to attend

3:15 PM - 4:00 PM
HOUSTON BALLROOM IV - VII

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