2019 Post-Show Report

AEC NEXT technology expo + conference

SPAR 3D EXPO & CONFERENCE

aecnext.com | spar3d.com/event

Produced by Diversified Communications

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INTRODUCTION

For many years now, the SPAR 3D Expo & Conference has been the place to go for asset owners seeking fundamentals about 3D technologies and leveraging its potential for cost reduction, safety enhancement and monitoring assets in real-time. It has established itself as the premier event for the commercial application of 3D technologies focused on 3D sensing, 3D processing, and 3D visualization tools. The event has always featured a full range of state-of-the-art mobile mapping solutions that highlight how this technology continues to evolve and grow. Much of that growth has taken place in the Architecture, Engineering, and Construction (AEC) industry which spurred the co-location of that event with the AEC Next Technology Expo + Conference beginning in 2017.

The 2019 co-location of these events highlighted not only how quickly can change with this technology but also how so many professionals understand the need to stay up with these changes. Nearly 1,900 professionals registered for the co-located events which represented an increase in attendance year over year was beyond our expectations. Attendees hailed from 33 countries including all 50 U.S. states and Washington DC, as well as seven Canadian provinces. Multiple live-demonstration areas including an interactive BIM Cave, hands-on AR/VR demonstrations, mobile scanning devices, vehicle-mounted remote sensing hardware, and more were available for all attendees to explore the newest technology. In addition to the hardware on display from 118 exhibitors, attendees connected during several networking events and learned from a full program consisting of more than 80 technical sessions, case studies, 101-tracks, and panels.

This burst in interest and activity is being driven by the recognition that previously accepted cost and schedule overruns in construction and when using new 3D tools are no longer acceptable. Technology is the answer, but how can stakeholders best frame their questions? The SPAR 3D Expo & Conference and the AEC Next Technology Expo + Conference is where they're coming to find out.

These discussions aren't just limited to the events though. SPAR3D.com and AEC Next News provide the industry with additional insights about the innovations and people that are fueling these sectors. With weekly and monthly newsletters that are free to sign up for, anyone can stay up to date with the latest solutions and developments that are helping people drive their businesses and workflows forward.

No matter where or how you're involved with 3D technology or in the AEC sector, we want you to be able to use this post-show report to better understand the role that the SPAR 3D Expo & Conference and the AEC Next Technology Expo + Conference played in it in 2019, which will be taken to the next level in 2020. We're thrilled to have you participate in this journey with us.

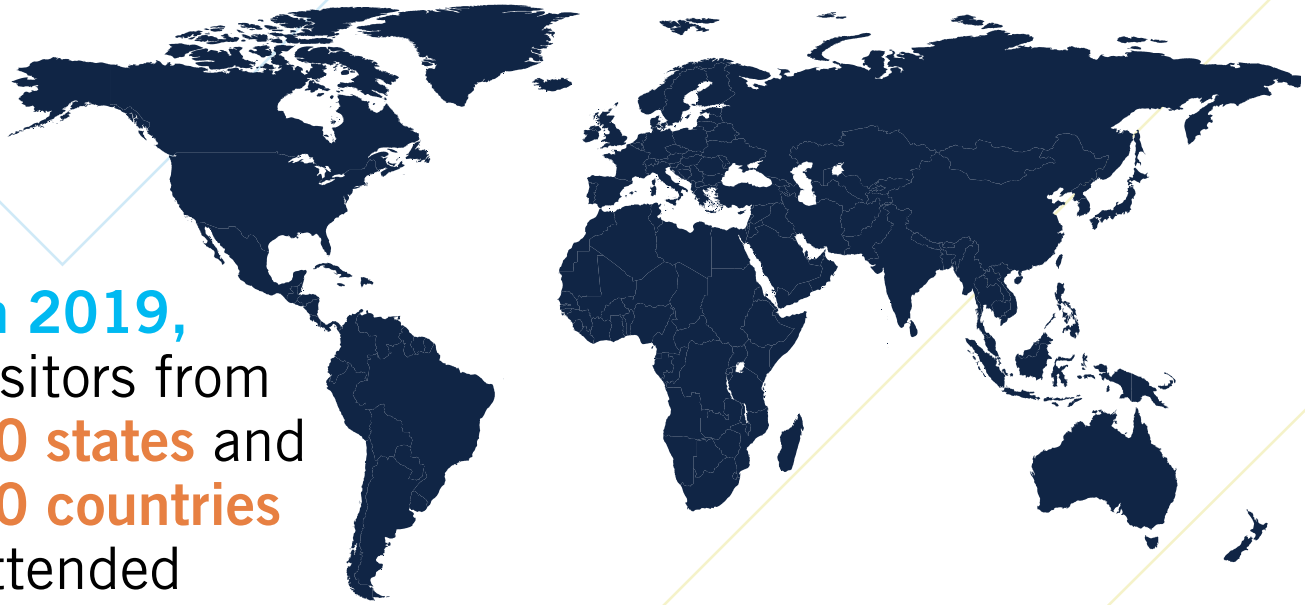
We look forward to seeing you at our next event and invite you to personally connect with all of us!

JEREMIAH KARPOWICZ
EXECUTIVE EDITOR

SHOW FACTS & FIGURES

> “Everyone that exhibited and attended was very passionate about emerging technologies which resulted in a great environment for learning and debate.”
>
> **- RYAN NEIL, SYMMETRY**

SHOW FACTS & FIGURES

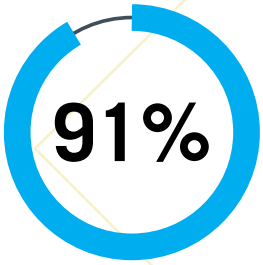


In 2019, visitors from **50 states** and **30 countries** attended

INTERNATIONAL BREAKDOWN

Andorra
Australia
Austria
Belgium
Brazil
Canada
Cayman Islands
Colombia
Czechia
Denmark
France
Germany
Hong Kong
India
Israel
Italy
Japan
Liechtenstein
Mexico
Netherlands
New Zealand
Peru
Philippines
Russia
Singapore
South Africa
South Korea
Trinidad and Tobago
United Arab Emirates
United Kingdom

ATTENDEE SATISFACTION



of attendees found new products

EXHIBITOR SATISFACTION

82% plan to exhibit again in 2020

91% are satisfied with the quality and quantity of sales leads

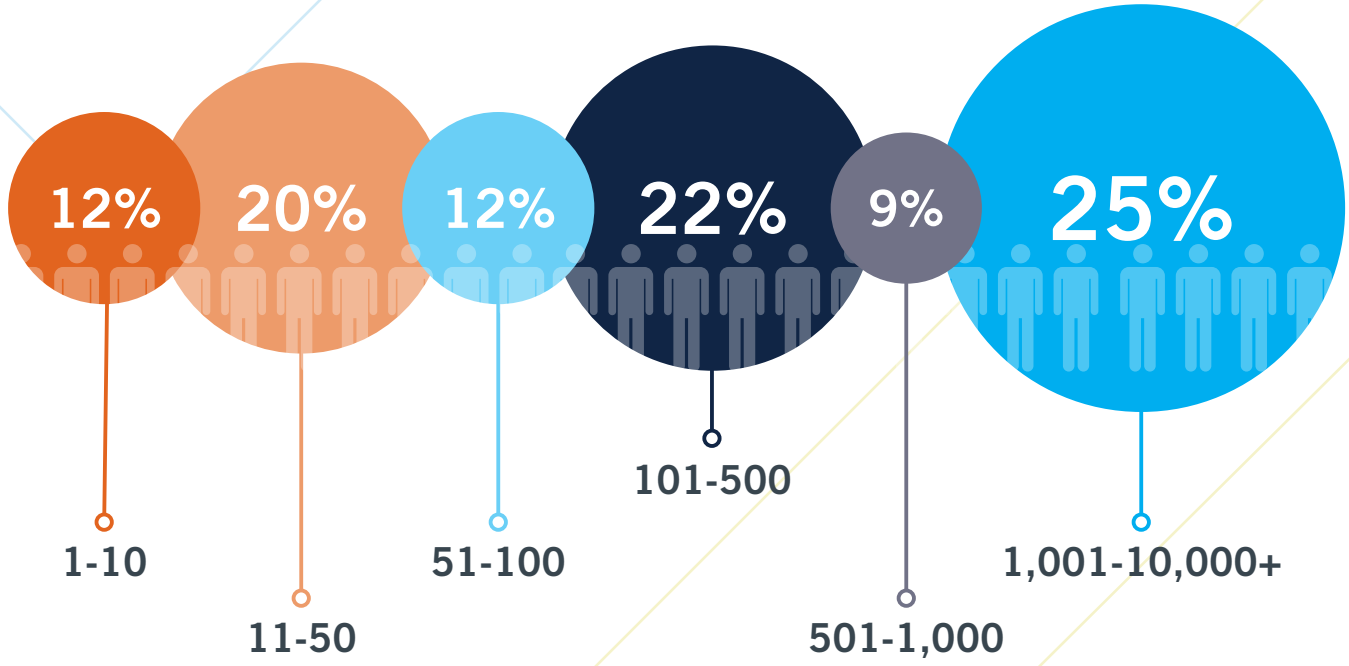
85% see sales potential as a direct result of exhibiting

ATTENDEE PURCHASING AUTHORITY

of attendees have direct purchasing power or influence

SHOW FACTS & FIGURES

FIRM SIZE



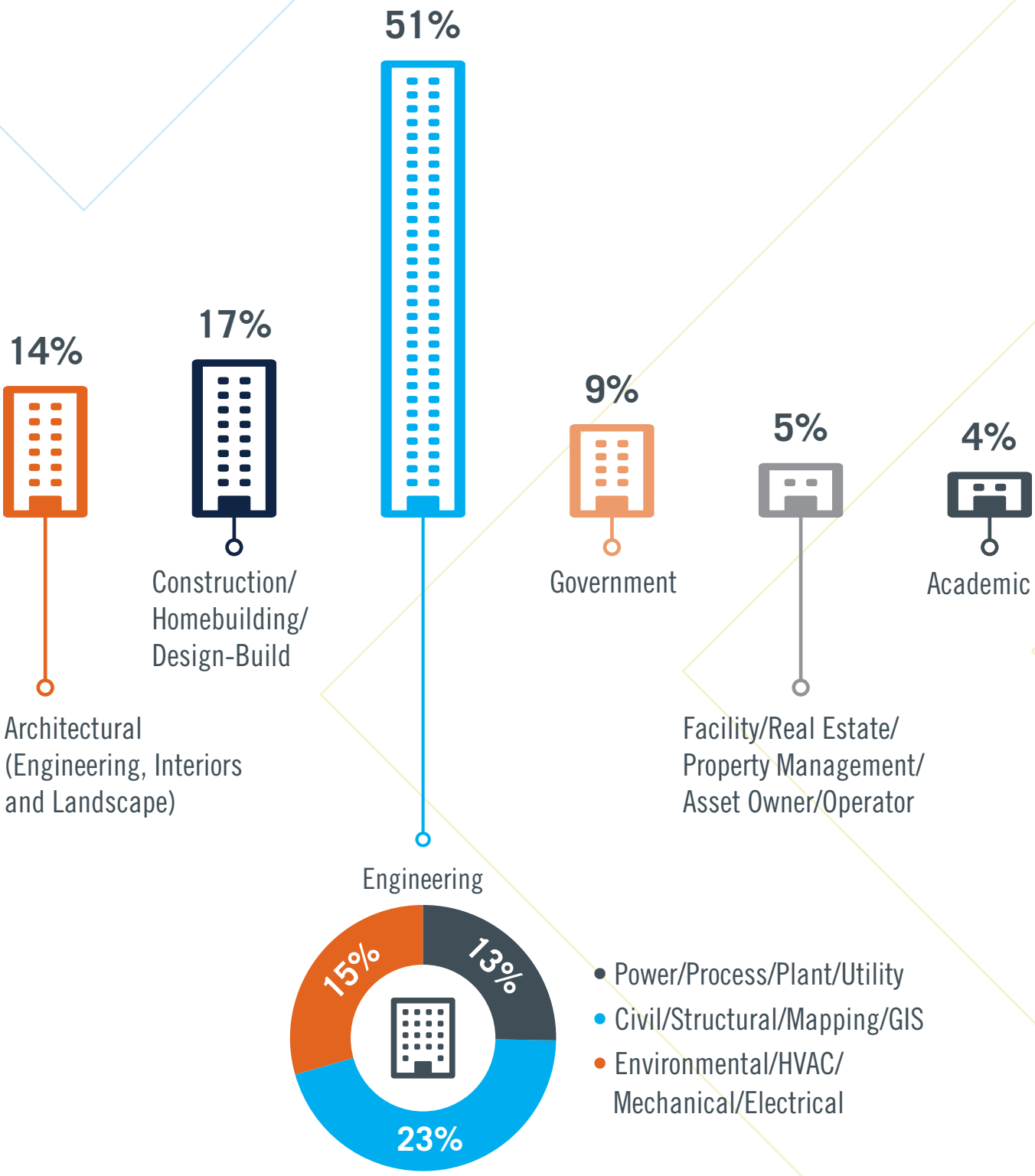
Job Functions

- 20% BIM/CAD/IT Manager/VDC
- 19% Executive Management (President/Owner/CEO/COO/CFO/VP)
- 12% Engineer
- 12% Architect/Designer
- 12% Surveyor, Scanning Lead or Metrologist
- 9% Construction Management/ Project Management/ Facility Management
- 9% Research & Development
- 7% Consulting
- 2% Educator/Researcher/Student

Industries Served

- 35% Survey & Mapping
- 20% Commercial AEC
- 8% Government & Institutional
- 8% Process, Power & Utilities
- 7% Residential, Insurance & Real Estate
- 6% Infrastructure & Transportation
- 5% Research & Academia
- 4% Industrial Facilities/ Asset Management
- 6% Specialty:
  - Marine/Shipbuilding
  - Entertainment & Gaming
  - Digital Heritage
  - Mining & Aggregates
  - Law Enforcement
  - Security & Forensics

SHOW FACTS & FIGURES



EVENT NEWS COVERAGE

> “I liked the exposure to cutting edge technology and improved workflows from other companies using that tech in practice.”
>
> **- JACOB GERHARDT, L&S DIVERSIFIED, LLC.**

Product launches and innovations at SPAR 3D / AEC Next

JEREMIAH KARPOWICZ

At SPAR 3D / AEC Next 2019, the product preview sessions provided attendees with an easy way to get up to speed around the latest product launches and innovations throughout the space. Companies that ranged from Bentley Systems to Z+F showcased new hardware and software solutions while also talking through where this technology is and will be utilized.

Take a look at a few of the highlights from the sessions or check out the #spar3d or #aecnext hashtags for plenty more updates from the event.

TWITTER FEED

Exploring traceable construction with @FARO_HQ along with the faster capabilities of their products at @SPAR_Events @AECNextTech pic.twitter.com/n3nt8h7Z0n

— Jeremiah Karpowicz (@jeremiahkarp) May 21, 2019

What are some of the presentations set to take place at the @FARO_HQ booth at @AECNextTech @SPAR_Events ? pic.twitter.com/OihLRAdu70

— Jeremiah Karpowicz (@jeremiahkarp) May 21, 2019

Insight about Blue Workflow 2.0 from @ZF_USA at @SPAR_Events @AECNextTech pic.twitter.com/mfMZ5in7u7

— Jeremiah Karpowicz (@jeremiahkarp) May 21, 2019

How @ZF_USA scanners are being used on a project at @SPAR_Events @AECNextTech pic.twitter.com/KVAhQCbDbJ

— Jeremiah Karpowicz (@jeremiahkarp) May 21, 2019

Exciting new mission control planning for the Falcon 8+ from @topcon_today highlighted at @SPAR_Events @AECNextTech pic.twitter.com/4QgJp0OGpX

— Jeremiah Karpowicz (@jeremiahkarp) May 21, 2019

SPEAKER INTERVIEW

KOUROSH LANGARI

Talking With Civil Engineer Kourosh Langari: Disrupting Old AEC Workflows

JONATHAN BARNES

Sometimes it takes a tech-friendly engineer to understand the value and applicability of new or relevant architecture, engineering and construction (AEC) tech tools. Indeed, the construction sector would be decades behind without the help of these professionals, who regularly test and adopt such tools to improve their jobs and overall work performance in the industry.

With 31 years in infrastructure planning and design with a focus on the integration of engineering/survey/GIS software applications, civil engineer Kourosh Langari has helped establish some of the AEC industry's best practices.

Through his work, the Caltrans Transportation Engineer has helped increase efficiencies in workflows of the Integrated Project Delivery (IPD) process. In addition to working with Caltrans (California Department of Transportation) for 23 years, he also has worked in the private sector, for AECOM.

At the upcoming SPAR 3D Conference, Kourosh will speak during the Integrated Project Delivery/In-Depth Project Session: UAS Implementation and Application for Caltrans Emergency Slide Project session. SPAR 3D recently touched base with Langari to talk about the state of AEC, tools that are helping the sector, how government agencies are helping the industry and more.

SPAR 3D: YOU'VE BEEN A CIVIL ENGINEER A LONG TIME... HOW HAS THE JOB CHANGED FOR YOU OVER THE YEARS?

LANGARI:

I have over 33 years of experience in the AEC arena.

In the late 80's we used to draw our project line work in 2D on Mylar and vellum. Today, we can develop 3D alternatives by using Reality Capture and Virtual Design Construction (VDC) in short order, and with machine learning technology becoming more prevalent, we're becoming even more efficient with minimizing the iteration processes. So, the 21st-century workflow is all about disrupting the existing AEC workflow and re-engineering the industry's approach to completing projects.

HOW IS CALTRANS ADOPTING TECH TO DEVELOP THE SMARTEST PROJECTS?

LANGARI:

Caltrans is heavily invested in new technology. The Department's Division of Research, Innovations & System Information is constantly working with national the Transportation Research Board (TRB) to evaluate new technologies, benchmark, and evaluate the effectiveness of tools.

WHY DO YOU LIKE YOUR WORK?

LANGARI:

Being a civil engineer for a DOT and working in the public sector is very gratifying. For more than 30 years I have been involved in mega-projects in Northern California, such as the Bay Bridge, Doyle Drive Presidio, BART, SMART and others. We've helped the citizens of California by providing a safe, sustainable, integrated and efficient transportation system. That system enhances California's economy and livability.

DO YOU THINK THAT LARGE GOVERNMENT AGENCIES LIKE TRANSPORTATION DEPARTMENTS CAN TAKE A LEAD ROLE IN FOSTERING INNOVATION IN THE AEC INDUSTRY?

LANGARI:

Absolutely. Large departments of transportation are strategically placed to foster innovation and establish industry best practices, standards, and for benchmarking of various products and workflows. Caltrans recently established an Innovation Center to foster all the ideas that help the department and industry with better communication and workflow efficiencies.

TELL US ABOUT YOUR SPAR 3D SESSION THAT FOCUSED ON INTEGRATED PROJECT DELIVERY.

LANGARI:

Depending upon the attendees' background, there were a number of takeaways. We discussed the business case for implementing UAS technology at a large Department Of Transportation; and showcased the development of standards and best practices, including training and safety requirements. We showcased some of the early adaptors of this technology across the organization and discussed the department's R&D effort to establish industry standards for design-grade survey and mapping and associated best practices. Also, showed actual emergency projects that benefited from the implementation of this technology.

WHAT DO YOU HOPE ATTENDEES TOOK AWAY FROM YOUR PRESENTATION?

LANGARI:

The goal of this presentation is demonstrating the UAS Integrated Project Delivery workflow and technology implementation across California Department of Transportation for Emergency Projects. The audience mindset should be wanting to see a new technology sector implementation across a large state DOT, with the development of regulation, business practices, training, safety, workflow, QA/QC and final deliverables.

SPEAKER INTERVIEW

MONICA SOSA

Talking with Monica Sosa: Today's AEC Tech is Intuitive, Effective and Affordable

JONATHAN BARNES

In construction, there's a lot of talk about best practices, but the proof in the concept is the results those practices deliver. Belief grows when the proof is evident.

As an associate and senior project manager for Corgan, architect Monica Sosa knows that the AEC proof is in the project experience. She will be sharing her experiences along with other team members who worked on the Los Angeles Airport project, for attendees of the upcoming SPAR 3D Conference in a presentation on Integrated Project Delivery/In-Depth Project Session: Los Angeles Airport. SPAR 3D caught up with Sosa recently to talk about LAX, augmented reality, project efficiencies and more.

WHAT CAN YOU SHARE ABOUT YOUR PRESENTATION?

SOSA:

We wanted to share with people how the technology we used was so successful in the collaboration on this large project. AEC pros should see how they can implement a smart camera or smart glasses in their work, as we did. We had the smart camera and the smart glasses there for people to try out.

WHAT KINDS OF TECHNOLOGIES ARE CURRENTLY CHANGING ARCHITECTURE AND CONSTRUCTION?

SOSA:

Definitely Augmented Reality is changing things—being able to have that overlaid construction model is powerful. You can see design changes in real time. And the smart glasses allow you to see everything, virtually, regardless of where you are.

WHY ARE YOU SUCH A FAN OF SMART GLASSES?

SOSA:

I think the Augmented Reality provided through the

smart glasses is changing how things are done. Being able to make [design]changes in the meeting room or in the field is very helpful.

WHY ARE YOU PASSIONATE ABOUT THIS SUBJECT, WHICH SOME MIGHT FIND A BIT DRY?

SOSA:

It's kind of exciting to see what's next and to see how technology is progressing…We can only imagine what the next 20 years will bring to the industry.

WHAT DO YOU EXPECT WILL BE A MAJOR LESSON?

SOSA:

It will be how successful we were with using this smart technology. Hopefully, attendees will be able to take this technology back with them. The smart camera first was used in real estate, before it was used in construction.

ARE THESE TOOLS YOU'LL BE DISPLAYING AFFORDABLE TO MOST COMPANIES?

SOSA:

Yes, they are affordable. The ROI for the smart camera is fast, at just one project—an 18,000 square foot space, which can be scanned by one person in only 30 minutes.

WERE YOU ABLE TO ATTAIN ANY ACTIONABLE INFO ON THE PROJECT, FROM USING EITHER OF THE TOOLS YOU'VE MENTIONED?

SOSA:

For the smart glasses and camera, it eliminated site visits for our consultants that were not local which was a direct savings to the project. The reasoning behind that is because of the glasses, we could remote them into the project site and we can converse and they can see and draw on top of what we are viewing. For the camera, it was able to capture the condition in high quality so our consultants can view the issues at hand from their offices.

NASA KEYNOTE RECAP

Making a helicopter for Mars? That's a 3D problem, for sure

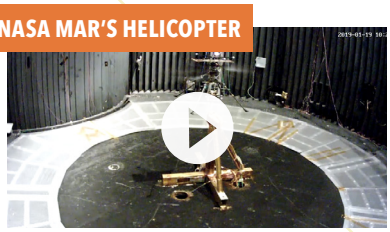
SAM PFEIFLE

Obviously, not everyone could make it to Anaheim for SPAR3D. We get it. So, we thought we'd give you a little taste of what attendees heard from keynoter MiMi Aung on May 22, to open the conference. Do you think you could design a Mars helicopter to fly missions of exploration? Because that's what Aung and her team at the Jet Propulsion Laboratory have done, using a lot of trial and error and 3D modeling and experimentation.

How hard was it? Well, Aung told a rapt audience, all they had to do was build a vessel less than 2kg, which can fly in atmosphere that's almost entirely carbon dioxide and roughly 1 percent as dense as earth's, and survive temperatures roughly 90 degrees below zero (celsius). No problem, right?

Well, Aung can now report they've done it. Take a look (skip to about 00:35):

NASA MAR'S HELICOPTER



Unfortunately, it's not that impressive looking. They only get two inches in the air for about a minute. My 12-year-old tells me he could do that with some legos. But just think about the conditions they had to create:

"The Martian atmosphere is only about one percent the density of Earth's," said Aung. "Our test flights could have similar atmospheric density here on Earth – if you put your airfield 100,000 feet (30,480 meters) up. So you can't go somewhere and find that. You have to make it."

Aung and her Mars Helicopter team did just that in JPL's Space Simulator, a 25-foot-wide (7.62-meter-wide) vacuum chamber. First, the team created a vacuum that sucks out all the nitrogen, oxygen and other gases from the air inside the mammoth cylinder. In their place the team injected carbon dioxide, the chief ingredient of Mars' atmosphere.

"Getting our helicopter into an extremely thin atmosphere is only part of the challenge," said Teddy Tzanetos, test conductor for the Mars Helicopter at JPL. "To truly simulate flying on Mars we have to take away two-thirds of Earth's gravity, because Mars' gravity is that much weaker."

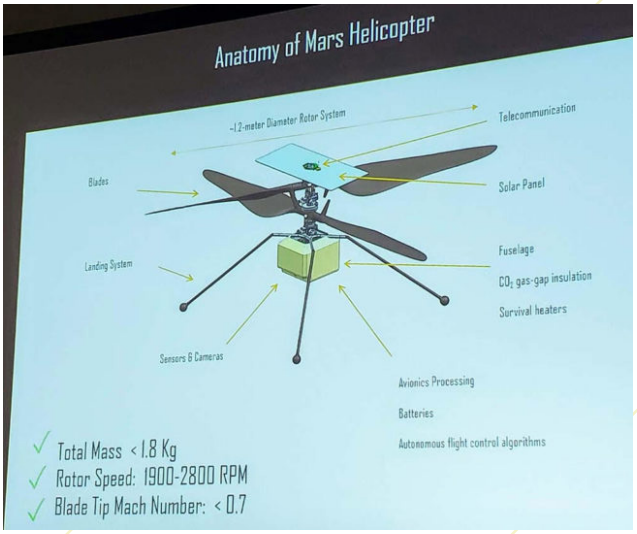
The team accomplished this with a gravity offload system – a motorized lanyard attached to the top of the helicopter to provide an uninterrupted tug equivalent to two-thirds of Earth's gravity.

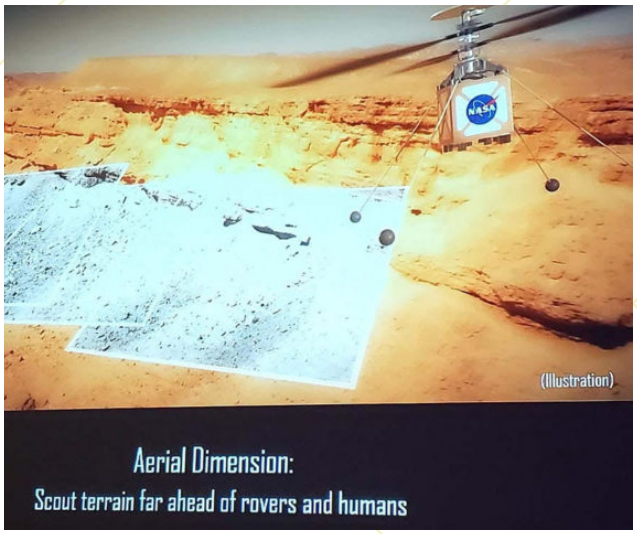
In all, Aung said, they used 1,500 parts to create the helicopter, which somehow ended up weighing in at 1.8kg. Heck, there's weight to spare! Throw a few cool stickers on that thing!

Once it gets to Mars in 2021 in the belly of the Mars Rover, Aung said it will drop to the ground and then begin flying on the red planet – hopefully. The Mars tests seem so elementary, and speak to the difficulty of the mission:

A month or two after the rover lands on the Red Planet, the chopper will drop down and hit the dirt itself. The little vehicle will then make a series of short flights, each of which will last about 90 seconds and reach a maximum altitude of 16.5 feet (5 meters) or so, Grip said.

These sorties will be made between 330 feet and 3,300 feet (100 to 1,000 m) away from the rover — far enough away to pose no collision danger, but close enough to be in communications range. (The helicopter will talk to its handlers on Earth via the rover.)





The blades spin at 2,400 revolutions per minute. Most drones here on earth do about 8,000-12,000 RPMs, but the blades wouldn't move enough of the thin atmosphere to get it off the ground. Helicopters are more like 250 RPM, and it's easy to see that this Mars helicopter is much more like a helicopter in terms of its blade-to-body ratio.

For now, the only payload will be a camera, which they'll use as a proof of concept, detailing the way such a helicopter could be used to scout terrain ahead of time. How long until there's a lidar unit on the bottom? I'm guessing not long. No doubt that would be incredibly helpful for modeling terrain and creating incredibly accurate visualizations of the planet. The lasers could probably also be used for some analysis of the composition of the rock.

Aung noted there's little room for error on Mars, so the scouting portion of the helicopter's mission is both incredibly important and kept relatively straightforward:

Clearly, a lot of testing and modeling went into this project. Luckily, there's a great document for exploring all the details if you're so inclined. Perhaps most relevant to SPAR folks is the "Helicopter Control Analysis Tool (HeliCAT). It was developed specifically for this purpose, using the Darts/Dshell multibody simulation framework developed at JPL. … [which provided for] detailed modeling of actuators and sensors, ground contact dynamics, ground support equipment, flight software integration and 3D visualization.

The simulations were used to generate and verify key mechanical design requirements such as rotor stiffness, perform system identification of vehicle dynamics to develop control algorithms, test embedded flight-software, and rehearse all test efforts."

How fun would that be to play with? Just imagine the processing power needed for all of that. In the end, you get a simulation of a Mars helicopter hovering inside the Victoria crater, which never gets closer than about 34 million miles away:

I can only imagine the thrill Aung and her team will feel when that model becomes reality in 2021. Having it work in a test facility in California is one thing. Getting that first confirmation of flight on Mars? That's going to be something special.

PRESS COVERAGE AND SOCIAL MEDIA

> “The lineup of presentations were exceptional. Very knowledgeable and experienced speakers.”
>
> **- ANDREW NICHOLSON, HII/INGALLS**

PRESS COVERAGE AND SOCIAL MEDIA

PRESS

WINNER ANNOUNCED IN YOUNGER GEOSPATIAL PROFESSIONAL OF THE YEAR AWARD (LIDAR NEWS)

DimEye Corp. @dimeyecorp · May 28, 2019
Thank you @SPAR_Events for the amazing show! See you all next year at the Windy City of Chicago! #spar3d #seeyounextyear #thankyou #grateful #tradeshow #amazingshow #lastweek #3dtechnology #3dmeasurement #3d #logo #anaheim #anaheimconventioncenter

1

Safe Software @SafeSoftware · May 22, 2019
We're at SPAR 3D and AEC this week! Come drop by and talk to us about #dataintegration and bring home some cool swag! @SPAR_Events

9

Geomni Aerial Imagery @GeomniMapPros · May 23, 2019
Last day of @SPAR_Events. Meet us at Booth 200 now #Anaheim, #California to claim your FREE DATA package and meet our expert crew!😊 #aerialphotography #aerialimagery #geospatial #gis #aerialdata #LiDAR #highresolutionimagery #3Ddata

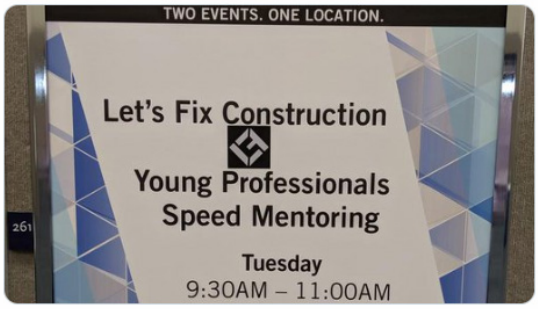
4 8

SPAR 3D EXPO & CONFERENCE/AEC NEXT TECHNOLOGY EXPO + CONFERENCE (AMERICAN SURVEYOR)

Kaarta @Kaarta3D · May 23, 2019
Discussing the future of robotics and AI here @SPAR_Events and @AECNextTech. @Kaarta3D CEO Kevin Dowling lending his perspective along with @AEyeInc, @AliceTechnology, @MandliCom, @StructionSite. #spar3d2019 #aecnext2019 #spar3d #aecnext

2 8

Let's Fix Construction @FixConstruction · May 22, 2019
And the #FixConstruction sessions are now complete at @AECNextTech @SPAR_Events. Time for the show floor and the blue skies of Anaheim.



2

Cesium @CesiumJS · May 24, 2019
Congrats to @gabbygetz! She's been named the Younger Geospatial Professional of the Year by @SPAR_Events for her achievements in 3D geospatial technology!
cesium.com/blog/2019/05/2...

2 10

VIDEO PAGE

EVENT HIGHLIGHTS VIDEO

CCR, INC TESTIMONIAL

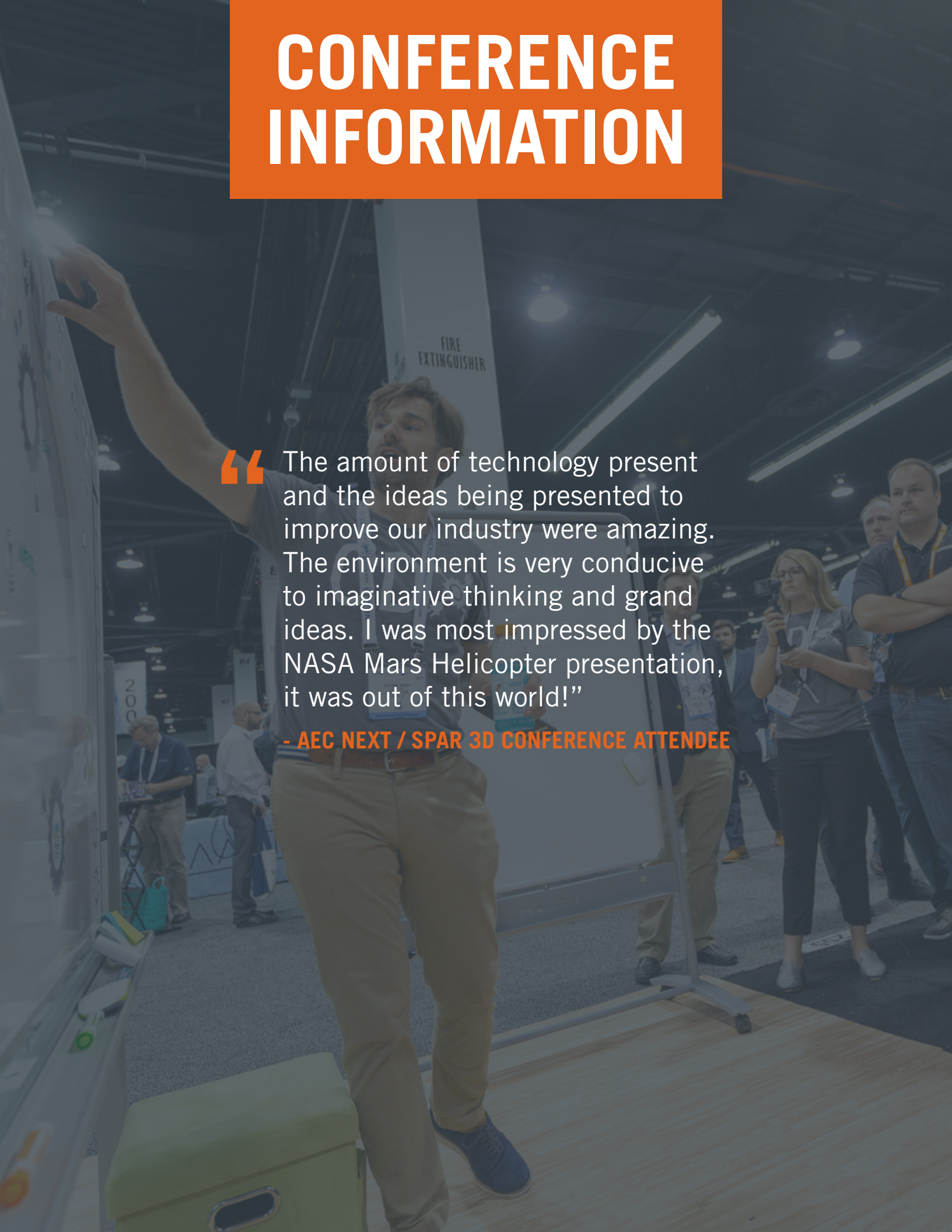
EXHIBITOR TESTIMONIALS

DELL TESTIMONIAL

OPENSPACE TESTIMONIAL

LEICA GEOSYSTEMS TESTIMONIAL

CONFERENCE INFORMATION



> “The amount of technology present and the ideas being presented to improve our industry were amazing. The environment is very conducive to imaginative thinking and grand ideas. I was most impressed by the NASA Mars Helicopter presentation, it was out of this world!”
>
> **- AEC NEXT / SPAR 3D CONFERENCE ATTENDEE**

KEYNOTES

MIMI AUNG
NASA

Mars Helicopter – Adding Autonomous Aerial Mobility to Open Doors to New Classes of Planetary Exploration

NASA is sending a helicopter to Mars. The Mars Helicopter, a small, autonomous rotorcraft, will travel with the agency's Mars 2020 rover mission to demonstrate the viability and potential of heavier-than-air vehicles on the Red Planet. MiMi Aung, Project Manager for Mars Helicopter at the NASA Jet Propulsion Laboratory, presented an incredible overview.

She has led the multi-disciplinary team that developed the small autonomous rotorcraft to perform the first time ever demonstration of aerial flight in the very thin atmosphere at Mars. At JPL, MiMi has engaged in multiple areas of space exploration, including space flight projects, Deep Space Network, technology development for autonomous systems, and technical line management.

FREDRIK HIEBERT
NATIONAL GEOGRAPHIC

KATHRYN KEANE
NATIONAL GEOGRAPHIC MUSEUM

Virtual 3D Technologies for Immersive Archeological Experiences

As an archeologist and explorer, Fred is keenly interested in sharing the wonders of his many fascinating explorations from the Tomb of Christ to Egyptian pyramids as well as underwater marvels globally. New technologies offer enticing means of accomplishing these goals. He's worked with his colleague Kathryn on immersive experiences at the National Geographic Museum, and together they shared the possibilities for sharing the world's archeological treasures with "Virtual 3D Technologies for Immersive Archeological Experiences."

KEYNOTES

BOB SUTOR
IBM RESEARCH

Quantum Computing: A View to the Future

We're all curious about how quantum computing will change how, and what types, of data will be processed, and the currently intractable challenges it may solve. Bob explored these questions and more in "Quantum Computing: A View to the Future."

JON SNODDY
WALT DISNEY IMAGINEERING

Collaborative Design

Jon Snoddy, SVP of Walt Disney Imagineering Research & Development Studios, explained how his teams work collaboratively with scientists, artists and engineers, to develop and invent new forms of entertainment. His teams work across robotics, AI, displays, visual computing, material science and interactive storytelling to create the next generation of Disney characters, rides, experiences and more.

AEC NEXT SPEAKERS

JOHN ABOWD
//3877

REHAN AMIN
Sanveo Inc.

MIKE ANGELO
Metropolitan Water District of Southern California

ROB ASHLEY
Surveying and Mapping LLC

MIMI AUNG
NASA

DAVE BARISTA
Building Design+Construction

SARAH BARRETT
Vectorworks, Inc.

KARA BARTELT
The Hoxton

ROB BARTHELMAN
Steinberg Hart

BARRY BEHNKEN
AEye

JASON BOEHNING
4D Technologies

TERRY BRICKMAN
Turner/ PCL Joint Venture

GEORGE BROADBENT
Microdesk, inc.

STAN BURNS
Integrated Inventory, LLC

BILL BURTON
BGC Engineering

MATTHEW CARLI
Laticrete International

PIETER CLARYSSE
Bricsys NV

MARK CLAYTON
Texas A&M University

KELLY CONE
ClearEdge3D

MATTHEW CRAIG
Becht Engineering

JOHN CRIBBS
Wentworth Institute of Technology

STEVE CYPHERS
GHD Digital

JACOB D'ALBORA
McVeigh & Mangum Engineering, Inc.

JUSTIN DEN HERDER
Silman

JOSH DESTEFANO
USIBD & lead Virtual Design & Construction at DPR Construction

KEVIN DOWLING
KAARTA

LOUAY ELDADA
Quanergy Systems Inc.

LAUREN ELMORE
Firmatek

DAVID EPPS
Winter Construction

JOHN ERICKSON
California Department of Transportation (Caltrans)

JULIEN FAURE
Unity

MIKE FERRERA
Knutson Construction

KEN FLANNIGAN
KONE

EDDIE FOSSLER
Olsson

THOMAS FREED
Jacobs

SEAN FRUIN
Sigma AEC Solutions

TJERK GAUDERIS
Bricsys nv

WOJTEK GAWECKI
Esri

KASRA GHAHREMANI
Walter P Moore

JP GIOMETTI
HCSS

MARK GIULIANI
Giuliani Associates Architects

MANI GOLPARVAR
Reconstruct Inc. | University of Illinois at Urbana-Champaign

BRIAN HAINES
FM: Systems

ALISON HART
Mortenson

THOMAS HAUN
Turner Mining Group

FREDRIK HIEBERT
National Geographic

MATTHEW HOFF
AutoDesk

MARYAM HOJATI
Pennsylvania State University

JOSH HOLMES
Gilbane Building Company

ANDY HOLROYD
HTS Advanced Solutions

NICK HOLZWORTH
saltmine

DAVID HUOR
Corgan

ALEXANDRA JOSEPH
Elysium Inc.

MEGHANA JOSHI
StudioTEK

JOHN JUREWICZ
Walbridge

KATHRYN KEANE
National Geographic Museum

NABEEL KHWAJA
Center for Transportation Research, University of Texas at Austin

KEVIN KIANKA
Haag Technical Services Co.

DAVID KIM
Los Angeles World Airports

KEEGAN KIRKPATRICK
RedWorks Construction Technologies Inc

LARRY KLEINKEMPER
Lanmar Services

JIM KOVALIK
Borton-Lawson

MARIO LAFLAMME
BBA inc.

MARIA LAGUARDA-MALLO, PHD
VIATechnik

CHERISE LAKESIDE
Let's Fix Construction

BRUNO LANDES
SNCF RESEAU

KOUROSH LANGARI
Caltrans

MATTHEW LATO
BGC Engineering

KRIS LENGIEZA
Procore

PHIL LIGON
Premier Building Systems

JOSH LOBEL
CW Keller & Associates

WALKER LOCKARD
Polk Mechanical

PHILIP LORENZO
StructionSite

ERIC LUSSIER
Let's Fix Construction

CHRIS MACINNIS
Crown-Indigenous Relations and Northern Affairs Canada Government of Canada

GERALD MAGNUSSON
BGC Engineering Inc.

AEC NEXT SPEAKERS

RAY MANDLI
Mandli Communications

MICHAEL MATTHEWS
Enstoa, Inc.

BRENT MAUTI
IBI Group

JEFFREY MCKISSICK
Harris Corporation

TRAVIS MENSEN
Metropolitan Water District of Southern California

LAURA MINCHK
Olsson

SAMER MOMANI
California Department of Transportation (Caltrans)

JOHN MONELL
Barron & Associates, P.C.

KATIE MONTAG
Knutson Construction

RENE MORKOS
ALICE Technologies

TED MORT
Zelus USA

ASHLEY MULHALL
orcutt | winslow

NAVEENKUMAR MUTHUMANICKAM
Pennsylvania State University

ROBERTO NABONI
University of Southern Denmark (SDU)

CODY NOWAK
CUBE

SEAN OLCOTT
gafcon

KIMON ONUMA
ONUMA Inc.

TOLY PANAYOTOV
Anadarko Petroleum

JOEL PENNINGTON
VIM AEC

DJ PHIPPS
XL Construction

MICHAEL POTTS
AMER

DOUGLAS PRITCHARD
Advanced Academic Program at Johns Hopkins University

TOM PRITSCHER
TEPCON

CHRIS PUCCI
Oregon Department of Transportation

AMR RAAFAT
Windover Construction

FRANCK RICHARD
SNCF RESEAU

TED RITTER
LMI360

GONZALO ROBERTS
KPFF INC

LUKE RONDEL
saltmine

MICHAEL ROPPELT
GSS Integrated Energy Ltd.

JOHN RUSSO
USIBD

TONY SABAT
SSOE Group

CHITWAN SALUJA
Jacobs

JEFF SAMPLE
JBKnowledge

CAMERON SCHMEITS
Center for Transportation Research, University of Texas at Austin

GREGORY SCHNACKEL
Schnackel Engineers, Inc.

PAUL SELLS
DAQRI

RYAN SHULTS
Gilbane Building Company

JEFF SIEGEL
HNTB Corporation

JARED SIMMONS
Antelope Valley College

DOUG SINCLAIR
Burns & McDonnell

BRIAN SMITH
Leica Geosystems

JON SNODDY
Walt Disney Imagineering

MONICA SOSA
Corgan

NATE SOULJE
Elysium Inc.

IGOR STARKOV
EcoDomus, Inc.

DANIEL STONECIPHER
IMMERSIVx

JOHN SULLIVAN
Continental Mapping

BOB SUTOR
IBM Q Strategy and Ecosystem, IBM Research

TAREK TABSHOURI
California Department of Transportation (Caltrans)

JASON TEETAERT
SMT Research Ltd.

TROY TIDDENS
NeUdesign Architecture

DAVID TRASK
ARC

ROEL VAN DE STRAAT
Arup

SATYAM VERMA
Pype

BRIAN VON ALLWORDEN
Wright Engineers

NATHAN WOOD
Construction Progress Coalition

JIM YANOSICK
Eye-Bot

GREGORY YOUNG
STANFIELD PARTNERS - A Division of PGP Capital Advisors

JAY ZALLAN
BIM Consortium, Kelar Pacific

CONFERENCE SCHEDULE

Tuesday, May 21, 2019

AEC NEXT TECHNOLOGY EXPO + CONFERENCE SCHEDULE

AEC NEXT technology expo + conference

	ROOM 261B	ROOM 254 PRODUCT PREVIEW PRESENTATIONS			
9:30	**LET'S FIX CONSTRUCTION:** Young Professionals Speed Mentoring	9:30AM – 9:45AM	**FARO**		
9:45		9:45AM – 10:00AM	**Zoller + Fröhlich GmbH**		
10:00		10:00AM – 10:15AM	**RIEGL**		
10:15		10:15AM – 10:30AM	**Cintoo**		
10:30		10:30AM – 10:45AM	**Surphaser**		
10:45		10:45AM – 11:00AM	**Leica Geosystems**		
11:00		11:00AM – 11:15AM	**Hexagon**		
11:15	**ROOM 262A**	11:15AM – 11:30AM	**KAARTA**		
11:30	**AEC: AEC Project Case Studies** - Turner Mining Group Improves Operational Efficiencies with Drone Solutions - Site Management with Augmented Reality Technology (S.M.A.R.T) - Business Benefits for the Nuclear Industry Using 3D Reality Capture	**ROOM 262B**	**ROOM 262C**	**ROOM 263A**	
11:45		**AEC: BIM/IPD** - Information Fusion… Harnessing the "I" for Lifecycle Data Manipulation - A Complete Toolkit for Sustainable Design - Using BIM for Fabrication: Two Case Studies	**AEC: BIMStorm:** Create an Entire BIM the First Day of Your Project	**AEC: IFMA:** It's All About the Data – From Many Sources to One Strategy	
12:00					
12:15					
12:30	**MID-DAY BREAK – Lunch is available for purchase in the Plaza Lobby Level**				
12:45					
1:00					
1:15					
1:30	**AEC: Data Visualization/VR Applications** - Emerging Uses for Augmented & Virtual Reality - Advancing Point Clouds for VR & Beyond - Virtual & Augmented Reality - Innovation Beyond Design - 3D Scans/Point Cloud Accessibility - Web Access, Collaboration & VR	**AEC: Construction Progress Coalition** The Gamification of Project Delivery Standards	**AEC: BIMStorm:** The USA Pavilion at Expo 2020 Dubai	**AEC: IFMA:** Minding The Gap: Connecting AEC To Owner For New Construction, As-Built And Handover	
1:45					
2:00					
2:15					
2:30					
2:45					
3:00	**NETWORKING BREAK – Coffee in Conference Area**				
3:15					
3:30	**AEC: Building Performance** - Creating Digital Twin for Sydney Opera House - Getting to Zero Energy with Structural Insulated Panels: The Rocky Mountain Institute Innovation Center - Building Stronger & Greener with Structural Insulated Panels (SIPs)	**AEC: Smart Cities** - The Good, the Bad & the Ugly - Smart Cities, Factories & Security Systems: LiDAR Applications Beyond Self-Driving Cars - Mapping the Future of Smart Cities	**AEC: BIMStorm:** BIM for Life!	**AEC: IFMA:** Bridging the Gap: Data Transformation & Location Intelligence for Smart Buildings	
3:45					
4:00					
4:15					
4:30					

CONFERENCE SCHEDULE

Tuesday, May 21, 2019

SPAR 3D EXPO & CONFERENCE SCHEDULE

SPAR3D EXPO & CONFERENCE

User Group Workshops

TUESDAY – THURSDAY
7:00AM – 5:00PM
Leica
Room 258A

TUESDAY – WEDNESDAY
8:00AM – 4:30PM
SoCal Bentley User Bash
Rooms 252B-C & 253A-C

TUESDAY
8:00AM – 12:00PM
ClearEdge
Room 256A

TUESDAY
8:00AM – 6:00PM
AIBD BIM-R Training
Room 264A

TUESDAY
8:00AM – 12:00PM
RIEGL
Room 264B

TUESDAY
9:00AM – 11:00AM
KAARTA
Room 256B

ROOM 259 PRODUCT PREVIEW PRESENTATIONS	
9:30AM – 9:45AM	**FARO**
9:45AM – 10:00AM	**TOPCON**
10:00AM – 10:15AM	**BENTLEY**
10:15AM – 10:30AM	**GEOMNI**
10:30AM – 10:45AM	**Trimble Clarity**
10:45AM – 11:00AM	**Matterport**
11:00AM – 11:15AM	**Trimble**
11:15AM – 11:30AM	**GeoSLAM**

ROOM 251A	ROOM 251B	ROOM 251C
SPAR: **Preparing for Change:** Beyond BIM to Digital Twin, Machine Learning & AI - Predictive Fabrication - Tour the Digital Twin - Implementing Transformative AECO Processes	SPAR: **Advances from Universities** - Digital Construction of Concrete: Design & Development of Printable Mixture & Printing Process - Challenging Constructions with Additive Manufacturing - Faster Building Permits & Inspections? Try Software for Self-Certification - Results of An AEC Supply Chain Optimization Study: Supporting A PrefaBIM Process	SPAR: **Fundamentals of 3D Technologies:** Being a Smart Consumer – Questions to Ask Vendors
MID-DAY BREAK – Lunch is available for purchase in the Plaza Lobby Level		
SPAR: **Fundamentals of 3D Technologies:** Determining Business Value & ROI of Technology Investments	SPAR: **Integrated Project Delivery/In-Depth Project Session:** Harvard University Stadium Revamp	Check the Mobile App
NETWORKING BREAK – Coffee in Conference Area		
SPAR: **Fundamentals of 3D Technologies:** Selecting 3D Technologies for Reality Capture - The Value of 3D Capture for the Digitalization of the Physical Asset - Creating Next Level Topographic Surveys Utilizing LiDAR Data Extraction & Data Management	SPAR: **Integrated Project Delivery/In-Depth Project Session:** Los Angeles International Airport	SPAR: **Integrated Project Delivery/In-Depth Project Session:** Large Vertical Building Project

CONFERENCE SCHEDULE

Wednesday, May 22, 2019

AEC NEXT TECHNOLOGY EXPO + CONFERENCE SCHEDULE

AEC NEXT technology expo + conference

	ROOM 257	ROOM 262A	ROOM 262B	ROOM 262C	ROOM 263A	ROOM 261 B
9:00 – 9:30	**KEYNOTE PRESENTATIONS**					
9:45	**KEYNOTE: Mars Helicopter: Adding Autonomous Aerial Mobility to Open Doors to New Classes of Planetary Exploration** – *MiMi Aung, NASA Mars Helicopter* **KEYNOTE: Quantum Computing: A View to the Future** – *Bob Sutor, IBM Q Strategy & Ecosystem, IBM Research*					
10:00 – 10:15	**NETWORKING BREAK – Coffee in Recharge Lounge**					
10:30 – 10:45		**AEC: Artificial Intelligence / Machine Learning Approaches** - Enhanced Life & Safety Through Artificial Intelligence - Artificial Intelligence for MEP Engineering - Increasing BIM Effectiveness with Artificial Intelligence - Utilizing Artificial Intelligence in Construction Planning & Scheduling	**AEC: Facilities Management** - Incorporating BIM into Life Cycle Management - From Design Coordination to Building Turn-Over: BIM 360 Build Helps Connect the Dots - Mobile Technology: It's Driving the Transformation to Modern Facility Management - Facility Management to Campus Management: The Interconnected Campus	**AEC: Historic Preservation** - The Taliesin West Data Capture: A Tale of Exploring New Technology in Frank Lloyd Wright's Desert Laboratory	**AEC: IFMA: Practical Planning:** Programming, Rapid Test Fitting, VR Design & Machine Learning for Corporate Office Space	**AEC: Let's Fix Construction Workshop**
12:00 – 1:15	**MID-DAY BREAK – Lunch is available for purchase in the Recharge Lounge and the Plaza Lobby Level**					
1:30 – 3:00		**AEC: Architectural Design** - Using Point Clouds & Virtual Reality for Hospitality Design - Building Smart MEP Systems with Algorithms - Reaching New Heights: Mass Timber Innovations - Current Trends in Modular Construction	**AEC: BIM TOPICS** - Automating BIM Management - BIM Transforming Operations & Maintenance - Case Studies of how BIM in Construction Impacts Operations - Results of an AEC Supply Chain Optimization Study: Supporting a PrefaBIM Process - 5 Steps to Creating an Outcome-Driven & Learning & Performance Support Program		**AEC: IFMA: Practical Management:** End-to-End Transparency for Owners - Controls & Risk Mitigation During Construction Projects	**AEC: USIBD Cornerstone Survey Report:** Review of the 3D State of the Industry
3:00 – 3:15	**NETWORKING BREAK – Coffee in Recharge Lounge**					
3:30 – 4:30		**AEC: Additive Construction** - Incorporating BIM in 3D Printing of Concrete - Challenging Constructions with Additive Manufacturing - 3D Printing - Mortars for Tomorrow's Buildings	**AEC: Infrastructure** - Digital Priorities for Infrastructure Projects - Scan Everything - Integrated Transportation Agencies		**AEC: IFMA: Technology Panel Review:** Technology Reality Check	**AEC: USIBD** Scanner 'Shoot Out'
4:45 – 5:00	**EXHIBIT HALL OPEN UNTIL 5:00PM**					

CONFERENCE SCHEDULE

Wednesday, May 22, 2019

SPAR 3D EXPO & CONFERENCE SCHEDULE

SPAR 3D EXPO & CONFERENCE

ROOM 257	KEYNOTE PRESENTATIONS

KEYNOTE: Mars Helicopter: Adding Autonomous Aerial Mobility to Open Doors to New Classes of Planetary Exploration – *MiMi Aung, NASA Mars Helicopter*

KEYNOTE: Quantum Computing: A View to the Future – *Bob Sutor, IBM Q Strategy & Ecosystem, IBM Research*

NETWORKING BREAK – Coffee in Recharge Lounge

ROOM 251A	ROOM 251B	ROOM 251C
SPAR: **AR/VR Applied:** Integrating with Drones, BIM, 3D Printing… and Some Unanticipated Benefits - Design, Construction, Facilities Management and Occupant Safety - BIM, VR, 3D Printing - Drone Mapping & VR for BIM Enhancement	SPAR: **Fundamentals of 3D Technologies:** CAD, GIS, BIM – Where are we headed?	SPAR: Integrating 3D Technologies & Making the Data Useful Across the Enterprise - Mapping a Massive Million Square Foot Facility in Two Days Using LiDAR & Photogrammetry - High-Accuracy GNSS for Non-Surveyors at Oregon DOT

MID-DAY BREAK – Lunch is available for purchase in the Recharge Lounge and the Plaza Lobby Level

SPAR: **Fundamentals of 3D Technologies:** Processing Large Data Sets: Available Options, Tips & Tricks	SPAR: **Integrated Project Delivery/In-Depth Project Session:** Giant Mine with Holographic Visualization	SPAR: **Integrated Project Delivery/In-Depth Project Session:** UAS Implementation and Application for Caltrans Emergency Slide Project

NETWORKING BREAK – Coffee in Recharge Lounge

SPAR: **Integrated Project Delivery/In-Depth Project Session:** Construction Projects	SPAR: **Integrated Project Delivery/In-Depth Project Session:** Waste Water Treatment Plant	SPAR: **Fundamentals of 3D Technologies:** Considerations for In-House vs. Outsourcing Your 3D Tech

EXHIBIT HALL OPEN UNTIL 5:00PM

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SUSAN SMITH
AECCafe.com & GISCafe.com

TED MORT
Zelus

EXHIBITORS, SUPPORTERS AND ATTENDEES

> I appreciated the quality of the vendors. I was able to speak in person with three or more leading software providers that are directly applicable to our current line of business.
>
> **- AEC NEXT / SPAR 3D CONFERENCE ATTENDEE**

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VIAmetris
VISUAL LIVE
VRMesh
VOXELGRID
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ZF Z+F USA, Inc.

EXHIBITOR LIST

AECCafe.com 246
ALICE Technologies 836
American Institute of Building Design (AIBD) 242
ARC Document Solutions 206
Arvizio 725
Autodesk 832
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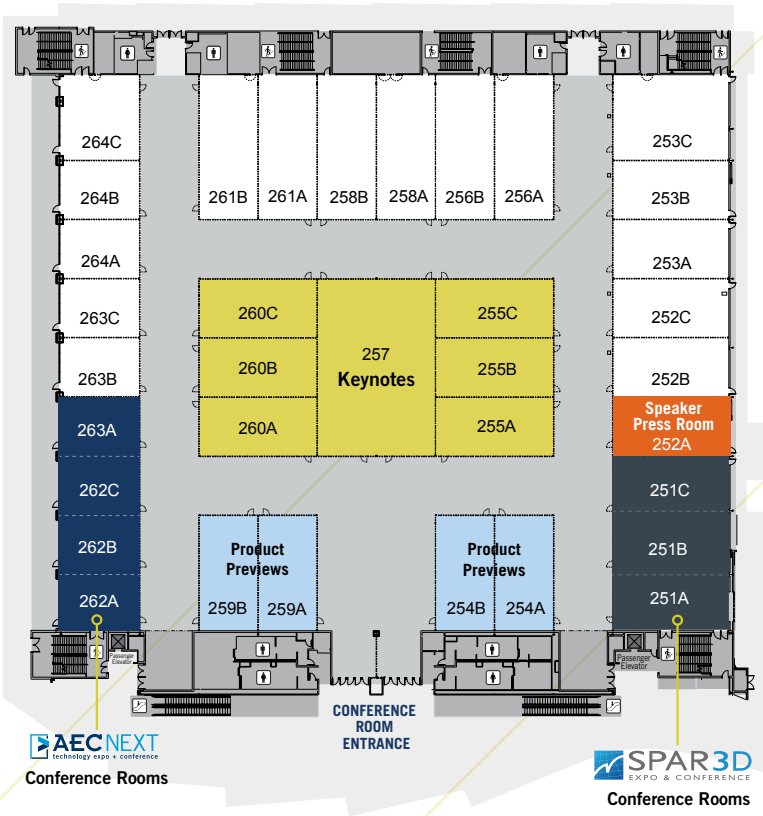

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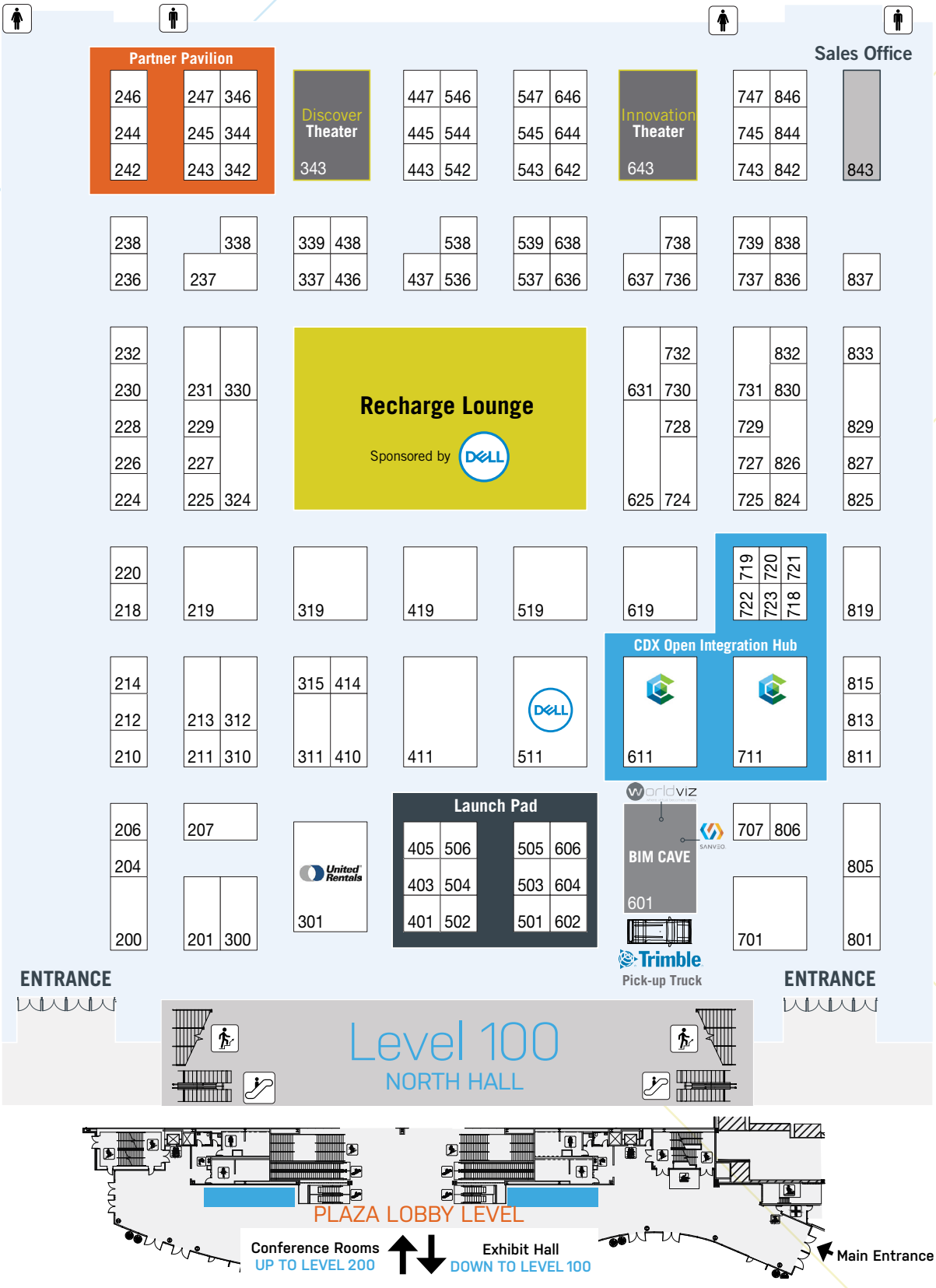
SHOW FLOOR PLAN



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AVIXI ON BEHALF OF GOOGLE
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BARRON & ASSOCIATES, P.C.
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BECHT LASER SCAN DIVISION
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BLOOM TECHNOLOGIES
BLUEBEAM, INC.
BOLTON & MENK, INC.
BOLTON AND MENK, INC.
BOMEL CONSTRUCTION
BOND BROTHERS, INC
BORTON LAWSON ENGINEERING
BORTON-LAWSON
BOXX
BR.IQ
BRC
BRC IMAGINATION ARTS
BREEN ENGINEERING
BREN SCHOOL - UCSB
BRICSYS
BRIGHTVIEW DESIGN GROUP
BROWN & CALDWELL
BUILDFORE
BUILDING DESIGN + CONSTRUCTION
BUILDINGPOINT MIDWEST
BUILDR
BUILT VFX
BUREAU OF ENGINEERING
BUREAU OF RECLAMATION
BURNS & MCDONNELL ENGINEERING
BURNS ENGINEERING
BY DESIGN VISION AND SOUND
C + S ENGINEER MEDIA
C3SPECTRA INC
CAL LAND ENGINEERING
CAL POLY POMONA
CAL POLY SAN LUIS OBISPO
CAL POLY SLO CM
CAL SATE LOS ANGELES
CAL STATE FULLERTON
CALIFORNIA DEPARTMENT OF TRANSPORTATION
CALIFORNIA DEPARTMENT OF WATER RESOURCES, GEODETIC
CALIFORNIA POLYTECHNIC STATE UNIVERSITY
CALIFORNIA SPACE CENTER
CALIFORNIA STATE POLYTECHNIC UNIVERSITY-POMONA
CALIFORNIA STATE UNIVERSITY LOS ANGELES
CALIFORNIA STATE UNIVERSITY NORTHRIDGE
CALIFORNIA STATE UNIVERSITY, FRESNO
CALIFORNIA STATE UNIVERSITY, FULLERTON
CALLISONRTKL
CALTRANS
CALTRANS DISTRICT 7

LIST OF ATTENDEES

CALVADA SURVEYING, INC
CALYX ENGINEERS + CONSULTANTS
CAMPGROUNDVIEWS.COM
CANADIAN COAST GUARD
CANSEL
CAPITAL ENGINEERING CONSULTANTS, INC.
CARLSON SOFTWARE
CAROLLO ENGINEERS
CATALINA ENTERPRISES
CAXPERTS GMBH
CBC AMERICAS
CCR
CDI ENGINNERING
CDX HUB
CEMEX
CENTER FOR TRANSPORTATION RESEARCH
CEO
CEPTON TECHNOLOGIES, INC.
CERRITOS COLLEGE
CESIUM
CGI / CITY OF SAN DIEGO
CHAMBERS GROUP, INC.
CHETU
CHOATE CONSTRUCTION
CIMA+
CINTOO
CIRNAC - GOVERNMENT OF CANADA
CITY OF CHULA VISTA
CITY OF FAIRFIELD
CITY OF HAWTHORNE
CITY OF LOS ANGELES
CITY OF SAN DIEGO
CIVIL ENGINEERING MAGAZINE
CL SURVEYING
CLARK CONSTRUCTION LLC
CLAYCO
CLEAREDGE3D
CLEARTECH
CLOUDALIZE
COAST 2 COAST
COLES GEO
COMPASSDATA INC.
CONAWAY GEOMATICS
CONCEPT3D
CONSTRUCTECH MAGAZINE
CONSTRUCTION BI
CONSTRUCTION DIVE (INDUSTRY DIVE)
CONSTRUCTION PROGRESS COALITION
CONSTRUCTION SYSTEMS ASSOC., INC
CONSTRUTIV TECH
CONTINENTAL MAPPING CONSULTANTS
CONTOURED, INC.
CONTROLPOINT SURVEYING, INC.
CONVENTION DATA SERVICES
CORBISSTUDIO/KIP
CORBLEY COMMUNICATIONS INC.
CORDOBA
CORE CONSTRUCTION
CORGAN
CORUM GROUP LTD
COUNTY OF LOS ANGELES PUBLIC WORKS
COUNTY OF ORANGE
COUNTY OF ORANGE / PUBLIC WORKS
COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS
CREAFORM U.S.A. INC.
CREATE GROUP - UNIVERSITY OF SOUTHERN DENMARK
CSM GROUP
CSU CHANNEL ISLANDS
CSULB
CSUN
CUBE
CULVER GROUP
CUNINGHAM GROUP ARCHITECTURE, INC.
CUPIX INC
CURVSURF, INC.
CUSTOM MOLDS
CW KELLER AND ASSC
CYCLOMEDIA TECHNOLOGY
D&W CONSULTING
D3D SCAN
DA VINCI ISOLUTIONS
DAOUDATA CORP.
DAQRI
DARLING GEOMATICS
DASSAULT SYSTEMES-SPATIAL
DATUM TECH SOLUTIONS
DATUMATE
DAVID EVANS AND ASSOCIATES
DAVINCI ISOLUTION
DBHMS
DCI ENGINEERS
DELL
DEMPSEY CONSTRUCTION
DEPARTMENT OF DEFENCE
DFAT
DGT ASSOCIATES
DHS CONSULTING, INC.
DIMENSIONAL EYE
DISNEY PARKS LIVE ENTERTAINMENT
DLR GROUP
DOD
DOI-NPS HERITAGE DOCUMENTATION PROGRAMS
DON READ CORP
DONG-AH
DONGBANG TCS CO.,LTD
DOOR SYSTEMS
DORINDA MUNUNURA
DOTPRODUCT
DOW CHEMICAL
DPR CONSTRUCTION
DR. FUTURE SHOW
DRASTER, INC.
DRAWALERT
DRAWING BOARD ASBUILT SERVICE
DRIFTSPACE
DRONEDEPLOY
DST HYDRO
DT RESEARCH
EAGLE MAPPING INC.
EAGLE POINT
EAGLEVIEW
EARTHCAM
E-BUILTS
ECODOMUS, INC.
EDGE - GLOBAL TECHNOLOGY SOLUTIONS
EDIS BIM SERVICES
EDIS COMPANY
EGNYTE
EGPS SOLUTIONS INC
ELLISDON CORPORATION
ELYSIUM / INFIPOINTS
ELYSIUM INC.
EMBEE POWER
EMCORE
ENFORCE GLOBAL
ENSCAPE
ENSTOA
ENVIRON ARCHITECTURE, INC.
ESI INC. OF TENNESSEE
ESP ASSOCIATES, INC.
ESRI
ESUB CONSTRUCTION SOFTWARE
ETA
ETV GLOBAL, INC.
EUROPEAN COMMISSION
EVOX IMAGES
EXXONMOBIL
EXYN TECHNOLOGIES
EXYTE US, INC.
EYE-BOT AERIAL SOLUTIONS
FAITH TECHNOLOGIES, INC.
FANTASMO
FARO TECHNOLOGIES, INC.
FIELD CORE - A GE COMPANY
FIELD SERVICES UNLIMITED, LLC
FIRMATEK
FIRSTENERGY
FLINT ASSOCIATES LLC
FLIR IIS
FLIR INTEGRATED IMAGING SOLUTIONS
FLUOR CORPORATION
FLYWHEEL AEC
FM GLOBAL
FM GROUP INC
FM:SYSTEMS
FOREST LAWN
FOTH INFRASTRUCTURE & ENVIRONMENT, LLC
FOTH PRODUCTION SOLUTIONS
FOX BLOCKS
FRAMECAD AMERICA
FREELANCE
FUJI TECHNICAL RESEARCH
FUJITA AMERICAS
FULLER
FULL-TIME STUDENT
FUSCOE ENGINEERING
G DESIGN
GAFCON
GAYRON DE BRUIN LAND SURVEYING

LIST OF ATTENDEES

AND ENGINEERING, PC
GEL SOLUTIONS
GEMDALE USA
GENERA GRAPHICS
GENESYS INTERNATIONAL CORP LTD
GENOVATION
GENSLER
GEOCV
GEOMNI
GEO-PLUS
GEORGIA PACIFIC
GEOSLAM
GEOSYSTEMS
GESSNER ENGINEERING
GETMAPPING
GEXCEL SRL
GH2
GHANA WATER COMPANY LIMITED
GHD
GIBBS & COX INC.
GIFFELS WEBSTER
GILBANE BUILDING COMPANY
GIS
GIULIANI ASSOCIATES
GLOBAL DESIGN SOLUTIONS
GLOBAL DIGITAL HERITAGE
GMCVB
GOOGLE
GOOGLE FIBER
GRAB
GRANITE CONSTRUCTION
GRAPHISOFT NORTH AMERICA
GRIOT GROUP INC
GRSM
GRW AERIAL SURVEYS, INC.
GSI GEOSPATIAL FIRM
GSS INTEGRATED ENERGY LTD.
HAAG ENGINEERING
HALE TECHNOLOGY IN PRACTICE
HALLAND GROUP
HALO
HAMMER TECHNOLOGIES
HANGZHOU OLE-SYSTEMS, CO.,LTD.
HANNA CONSULTING
HANYANG UNIVERSITY
HARGROVE ENGINEERS + CONSTRUCTORS
HARRIS CORPORATION
HASKELL
HATHAWAY DINWIDDIE CONSTRUCTION CO.
HBI
HBO
HCSS
HDCCO
HDR
HELIX RE, INC.
HERASTORY PRODUCTIONS
HERE TECHNOLOGIES
HEWITT
HEXAGON
HH ANGUS & ASSOCIATES
HHNT
HII/INGALLS
HILTI CORPORATION
HITACHI CAPITAL AMERICA VENDOR SERVICES
HITACHI VANTARA CORP.
HKS INC.
HNTB CORPORATION
HOGAN & ASSOCIATES CONSTRUCTION
HOLDER CONSTRUCTION
HOLLAND ENGINEERING
HOLOBUILDER
HOODMAN CORPORATION
HORUS VIEW & EXPLORE
HOUSING XL
HOVER ANALYTICS
HRP-RESOURCES
HTS ADVANCED SOLUTIONS
HUNTINGTON INGALLS
HYDRO-QUEBEC
HYPERACUITY
IBI GROUP
IBM RESEARCH
ICE ENERGY
IEIRI LAB
IFACTOR CONSULTING, INC.
IGI
IKUTUKI
IMEG CORP
IMMERIVX, PROCON
IMMERSION DATA SOLUTIONS
IMPACT
IMS INFRASTRUCTURE MANAGEMENT SERVICES
INDEPENDENT
INDEPENDENT FLOOR TESTING & INSPECTION
INDOORVU
INDUSTRY LIFT
INFO TECH, INC.
INFORMED INFRASTRUCTURE
INGALLS SHIPBUILDING
IN-Q-TEL
INTEGRAL GROUP
INTEGRATED INVENTORY, LLC
INTEL CORPORATION
INTERNATIONAL FACILITY MANAGEMENT ASSOCIATION
INTERNATIONAL MONETARY FUND
INTERTEK
INTETICS
INTRALINK
IPD ENGINEERING
IPR SERVICES
IPS-INTEGRATED PROJECT SERVICES
IQGEO, INC.
IRA CONSULTANTS, INC.
IRVINE COMPANY
ISG
IUOE LOCAL 150 APPRENTICESHIP
JACOBS ENGINEERING
JAMA
JCE STRUCTURAL ENGINEERING GROUP, INC.
JDM TECHNOLOGY GROUP
JOHNS HOPKINS UNIVERSITY
JOHNSON CONTROLS
JON PEDDIE RESEARCH
JUKI AMERICA INC
JZMK PARTNERS
KAARTA
KANEMATSU AEROSPACE CORPORATION
KATERRA
KCS WEST
KDM MERIDIAN
KDS ENGINEERING DESIGN BIM SERVICES
KELYN TECH
KENESTO CORPORATION
KETI
KEYSTONE AERIAL SURVEYS, INC.
KIEWIT
KIM PHARMACY III
KIMOTO CO.,LTD
KITTYHAWK.IO
KLEINFELDER
KLEMANOWICZ & ASSOCIATES
KNUTSON CONSTRUCTION
KOA CORP
KOMPASS TRANSNATIONAL CORP.
KONE, INC.
KOPPA TARGETS
KOREA ELECTRONICS TECHNOLOGY INSTITUTE
KOREA ENVIRONMENT INSTITUTE (KEI)
KOWABUNGA STUDIOS
KPFF
KTGY GROUP INC
L & S DIVERSIFIED, LLC
L&S SURVEYING SERVICES LIMITED
LA COUNTY PUBLIC WORKS
LA STADIUM AND ENTERTAINMENT DISTRICT
LAB D+H
LACDPW
LACSD
LADOT
LADWP
LAMP RYNEARSON
LAND SURVEYING ASSISTANT
LAND SURVEYS
LANGAN ENGINEERING
LANMAR SERVICES
LARGO CONCRETE
LATICRETE INERNATIONAL INC.
LAXENSE, INC.
LD SAFETY MARKING
LEAD`AIR, INC
LEANEQUIP SYSTEMS
LEICA GEOSYSTEMS
LENDLEASE
L-ENGENEERING
LET`S FIX CONSTRUCTION
LEXION DEVELOPMENT
LIDAR MAGAZINE
LIDAR MAGAZINE / NASA
LIDAR NEWS
LIDARUSA
LIFE TIME CONSTRUCTION

LIST OF ATTENDEES

LIMBACH
LINKD
LOADSPRING SOLUTIONS, INC.
LOCKHEED MARTIN
LOD PLANNER, INC.
LONG BEACH UNIFIED SCHOOL DISTRICT
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
LOS ANGELES WORLD AIRPORTS
LPA INC.
LSW ARCHITECTS
LUCID VISION LABS
LUEDER CONSTRUCTION
M KOSKO, INC
MABAT 3D TECHNOLOGIES LTD.
MACUTEX
MAGIC LEAP INC
MAHA`S DESIGNS
MAKESEA
MANDLI COMMUNICATIONS, INC.
MANGINI ASSOCIATES, INC.
MANTIS VISION
MANUFACTURERS
MAPTOPIA INC.
MAREK BROTHERS SYSTEMS, INC
MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION
MARK ACETO
MARSHALLCHAFIN
MASER CONSUTING P.A.
MASTERMIND, LLC
MATTERPORT INC.
MAZZETTI
MCCARTHY BUILDING COMPANIES
MCCORD ENGINEERING
MCELHANNEY
MCKIM & CREED
MCL CONSTRUCTION
MCMILLEN JACOBS ASSOCIATES
MCVEIGH & MANGUM
MEASURE UP CORP
MECHANICAL SOLUTIONS, INC.
MELOWN TECHNOLOGIES SE
MENEMSHA SOLUTIONS
MERIDIAN GLOBAL GROUP LLC
MESSER CONSTRUCTION
METROPOLITAN WATER DISTRICT
METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
MICRODESK, INC.
MIDAMERICAN ENERGY COMPANY
MIDLAND GEOSPATIAL SERVICES
MIDWESTERN CONSULTING
MILWAUKEE TOOL
MIMIC3D
MING SURVEYORS, INC
MINNESOTA DEPARTMENT OF TRASPORTATION
MIRACOSTA COLLEGE TCI
MIRUKURU
MISSION SUPPORT AND TEST SERVICES
MITSUBISHI CORPORATION
MJ ENGINEERING & LAND SURVEYING, PC
MMI
MNDOT
MODERN NIAGARA
MODUS
MONSEN ENGINEERING
MORRISON-MAIERLE INC.
MORTENSON CONSTRUCTION
MP BIOMEDICALS
MSI (HARDWARE)
MSTS
MTWO
MUELLER PROST
MWD
MYNT EYE
NAC ARCHITECTURE.COM
NASA
NASA JET PROPULSION LABORATORY
NATIONAL GEOGRAPHIC
NAVARRO RESEARCH & ENGINEERING
NAVVIS
NC TECH LTD
NCE
NEI
NET RESULT
NEUDESIGN ARCHITECTURE
NEVELL GROUP INC.
NEW DYNASTY CONSTRUCTION, CO.
NEW MILLENNIUM BUILDING SYSTEMS
NEWFORMA, INC.
NEWPORT NEWS SHIPBUILDING
NEXUS 3D CONSULTING
NHEO INSTITUTE
NIDEC COPAL ELECTRONICS
NIPPON INSIEK CO., LTD.
NORTHSTAR SURVEYS
NOTE VAULT
NOVA SYSTEMS PTY LTD
NUBIGON INC.
NUCOR. VULCRAFT/VERCO GROUP
NULECTRIC INC.
NURULIZE, INC.
NUTRIEN
OAC SERVICES, INC.
OC DRONE COMMAND
OC PUBLIC WORKS
OCCIPITAL
OHIO FACILITIES CONSTRUCTION COMMISSION
OLSSON
OMICRON
ONDAKA
ONSITEIQ
ONUMA, INC.
OPENSPACE
OPN ARCHITECTS
ORANGE COUNTY PUBLIC WORKS
ORBBEC3D
ORBIT GT
ORCUTT WINSLOW
OREGON DOT
ORISE
ORS SYSTEMS INC.
OUSTER
PACIFIC SPATIAL SOLUTIONS INC.
PANKOW
PANOSCAN
PARACOSM
PARSONS
PAS
PASSMOREVR
PATHWAY SERVICES INC.
PCL CONSTRUCTION SERVICES INC.
PDX COORDINATOR
PELICAN PRODUCTS
PENN STATE ARL ELECTRO-OPTICS CENTER
PENNSYLVANIA STATE UNIVERSITY
PEPPER CONSTRUCTION GROUP
PG&E
PHOENIX LIDAR SYSTEMS
PHORIA
PILOT CATASTROPHE SERVICES, INC.
PINE TREE TECHNOLOGY INC
PINNACLE INFOTECH INC.
PIRCO-ONE
PIX4D
PLANGRID
PLANT DESIGN ACADEMY, LLC
PLW MODELWORKS
PMDTECHNOLOGIES
PMO ERP DATA
POB
POINTCAB & LASERSCANNING EUROPE
POINTERRA
POINTFUSE
POLAR SHADES HOSPITALITY
POLBQ
POLYNESIAN EXPLORATION, INC
POMERLEAU
PORT OF LONG BEACH
POWER CONSTRUCTION
POWER ENGINEERS INC.
POWERS ENGINEERING AND INSPECTION
POWER-TECH ENGINEERS, INC.
PPM
PRECISION MIDWEST OF ILLINOIS LTD.
PRECISION POINT INC.
PRECISIONHAWK
PREMIER BUILDING SYSTEMS
PRIVATE CONTRACTOR
PROCORE
PROFESSIONAL GULF CONSULTING
PROGROUP
PROJECTCONTROLS.ONLINE
PROTOTECH SOLUTIONS
PSHOLIX AG
PSMJ RESOURCES INC.
PYPE
QUANERGY SYSTEMS, INC.
RAILPROS INC.
RAKEN
RANCHO MISSION VIEJO

LIST OF ATTENDEES

RAYTHEON
RDO EQUIPMENT CO.
REALSERVE
RECONSTRUCT
REDSHIRT MEDIA
REDWORKS CONSTRUCTION TECHNOLOGIES INC.
REID MIDDLETON, INC.
RESCAN, INC.
RESONAI
REVIZTO
RFX INC
RICCA DESIGN STUDIOS
RIEGL USA INC.
RIKORE GEOMATICS
ROBERT BOSCH TOOL CORPORATION
ROBERT J. LUNG & ASSOCIATES, INC.
RODGERS CONSULTING, INC.
RODRIGUEZ CONSULTING LLC
ROGER WILLIAMS UNIVERSITY
ROGERS-O`BRIEN CONSTRUCTION
ROLLING HILLS COVENANT CHURCH
ROSENDIN ELECTRIC, INC.
RWDI
RYAN COMPANIES
RYVIT
SADDLEBACK COLLEGE
SADDLEBACK SURVEYS
SAFE COMMUNITY ALLIANCE INC.
SAFE DRONE
SAFE SOFTWARE INC.
SALAS O`BRIEN
SALT RIVER PROJECT
SALTMINE
SANDIA NATIONAL LABS
SANEI CO.,LTD.
SANITATION DISTRICTS OF LA COUNTY
SANVEO INC
SAS GEOSPATIAL, LLC
SATLAB GEOSOLUTIONS INC
SCAQMD
SCHNACKEL ENGINEERS, INC.
SCST, LLC
SEATTLE PUBLIC UTILITIES
SEESCAN
SEILER INSTRUMENT
SENSEFLY
SEVAN MULTI-SITE SOLUTIONS
SEXTANT GEOMATICS
SGA DESIGN GROUP
SGC ENGINEERING, LLC
SGM INC.
SGMAX
SHELL
SHP
SIEMENS DIGITIAL INDUSTRIES SOFTWARE
SIGMA AEC SOLUTIONS / EVOLVE LAB
SILMAN
SILVERDRAFT
SITE SURVEYS
SIXENSE MAPPING
SIXGILL
SKB ARCHITECTS
SKY LADDER DRONES
SKYLINE SOFTWARE SYSTEMS INC.
SKYWIDE LOGIC, LLC
SLAC NATIONAL ACCELERATOR LABORATORY
SMARTER SPACES
SMARTREVIEW
SMILE GARDEN
SMT RESEARCH
SNCF RÉSEAU
SO CAL GAS
SOLATUBE
SOLV3D INC.
SOUTHWEST SCANNING
SOUTHWEST WATER COMPANY
SPAR JAPAN
SPATIAL MEDIA LLC
SPEC SERVICES INC.
SPINVIEW GLOBAL
SS&T
SSC COMPASS GROUP
SSOE, INC.
STANFIELD PARTNERS
STANTEC
STARTINGPOINTS.XYZ
STEINBERG HART
STEUART SYSTEMS
STEVE P. RADOS INC.
STEVENSON SYSTEMS, INC.
STILES CONSTRUCTION
STO CORP
STRABAG AG
STRATEGIC CLOUD ADVISORS, LLC
STRICKLER HOLDINGS, INC.
STRUCSOFT
STRUCTIONSITE
STRYX
STUDIO T-SQ 2
STUDIO T-SQ2 INC.
STUDIOTEK
STV INCORPORATED
SUMITOMO HEAVY INDUSTRIES, LTD.
SURPHASER
SURVEYING AND MAPPING LLC
SWINERTON BUILDERS
SYMMETRY
SYNNEX
SYSKA HENNESSY GROUP
T. BAKER SMITH, LLC
TAKE-OFF PROFESSIONALS (TOPS)
TAYLORS
TCA ARCHITECTS
TCI MIRACOSTA COLLEGE
TDG THE DIGIT GROUP
TECH NATE COMMS
TECH SOFT 3D
TECHNIPFMC PT
TELEDYNE OPTECH
TERMIFLEX®
TESLA MOTORS
TETRATECH
TETRAVUE
THE AEGIS TECHNOLOGIES GROUP, INC.
THE AMERICAN SURVEYOR MAGAZINE
THE ANT GROUP
THE AUSTIN COMPANY
THE HOXTON, DOWNTOWN LA
THE KLEINGERS GROUP
THE NEVELL GROUP INC
THE PENTA BUILDING GROUP
THE UNIVERSITY OF TEXAS AT AUSTIN
THE WESTLAND GROUP
THE WHITING-TURNER COMPANY
THIS IS ENGINEERING, INC.
THORNTON TOMASETTI
TIE INC.
TIEN SOLAR LLC
TILDEN-COIL CONSTRUCTORS
TIM WILCOX
TIM WOODRUFF CONSULTING, LLC
TIME COUNTS LLC
TITAN AEC
TIVERBUILT LLC
TONICDM
TOPA3D INC.
TOPCON POSITIONING SYSTEMS
TOPPEL CONSULTING, INC
TOSOLINI PRODUCTIONS
TOWILL, INC.
TPLM-3D
TRACEAIR
TRANSCO PRODUCTS, INC.
TRH3D
TRIBAL POWER SYSTEMS
TRIMBLE INC.
TRIUNITY
TRUEPOINT LASER SCANNING LLC
TUNNEL VISION PIPELINE SERVICES
TURNER CONSTRUCTION COMPANY
TURNER MINING GROUP
TUV SUD AMERICA
TYLER DEVELOPMENT
U.S. ARMY GEOSPATIAL CENTER
U.S. CAD
UA-ITF
UC RIVERSIDE
UCSD
UNDERHILL GEOMATICS LTD.
UNIFILABS
UNION BANK
UNITED RENTALS (UR)
UNITY TECHNOLOGIES
UNIVERSITY MECHANICAL & ENGINEERING CONTRACTORS, I
UNIVERSITY OF PHOENIX
UNIVERSITY OF SOUTHERN CALIFORNIA
UNIVERSITY OF VERMONT
US ARMY
US ARMY CORPS OF ENGINEERS
US GOVERNMENT
US NAVY
USA ARCHITECTS

LIST OF ATTENDEES

USACE ERDC
USACE-ERDC-GRL
USC
USHIO AMERICA, INC.
USI INSURANCE SERVICES
USIBD
VECA ELECTRIC & TECHNOLOGIES
VECTORWORKS, INC.
VEI GLOBAL
VELODYNE LIDAR
VERONORTE
VEXCEL IMAGING
VIAMETRIS
VIATECHNIK
VICTAULIC
VIM AEC
VIRTUAL SPACE
VIRTUALGRID
VISUAL INTELLIGENCE, LP
VISUAL LIVE
VITRUALIZE SERVICES INC
VOXAL GROUP, INC.
VOXELGRID GMBH
VRMESH
WACOM
WALBRIDGE
WALT DISNEY IMAGINEERING
WALTER P MOORE
WATER & WASTEWATER DESIGN ASSOCIATES
WE GET AROUND NETWORK
WE WORK
WEBB FOODSERVICE DESIGN
WEBFM USA LLC
WENTWORTH INSTITUTE OF TECHNOLOGY
WESLEYAN UNIVERSITY
WESTLAKE CHEMICAL CORP.
WESTWOOD PROFESSIONAL SERVICES
WEWORK (THE WE COMPANY)
WHITE LABEL AR
WHITING-TURNER
WILLMENG CONSTRUCTION
WIMBERLY ALLISON TONG & GOO, INC.
WINDOVER CONSTRUCTION
WINNING TECHNOLOGIES INC.
WINTER CONSTRUCTION
WINTRUST SPECIALTY FINANCE
WIZARDDESIGNS
WKE INC
WOLFSBURG WEST
WORLDVIZ
WORLEY
WRIGHT ENGINEERS
WRIGHT MAPPING
WRODACKI
WWCCA
WWW.ENSTOA.COM
XFROG
XL CONSTRUCTION
XYHT MAGAZINE
Z+F USA, INC.
ZACHRY CONSTRUCTION
ZACHRY CORP.
ZACHRY NUCLEAR ENGINEERING
ZELUS
ZELUS / ECO3D
ZEN ENGINEERING
ZM INTERACTIVE

SPECIAL ONSITE EVENTS AND SHOW HIGHLIGHTS

> “I enjoyed how you were able to interact more with the technology instead of just seeing videos about how the products work. But actually see them in action.”
>
> **- AEC NEXT / SPAR 3D CONFERENCE ATTENDEE**

AEC NEXT AND SPAR 3D LAUNCH PAD

The Launch Pad is a dedicated hub on the show floor providing a platform for introducing cutting-edge solutions in the built world. Attendees explored new ideas and emerging technologies that redefine how projects are planned, designed, and constructed!

Bidsters
BIM HOLOVIEW
CAXperts
Cloudalize
Unlimited GPU resources on demand & on any device
ENSCAPE
KOWABUNGA STUDIOS
liagkd
SYMMETRY
Tonic
Document Management
UNIFI
VOXELGRID

YOUNGER GEOSPATIAL AWARD

LEFT TO RIGHT: FPO WE SHOULD ADD A PHOTO CAPTION TO THIS WITH NAMES AND COMPANY

2019 GEOSPATIAL AWARD WINNER

GABRIELLE "GABBY" GETZ
Software Developer, Cesium

YOUNGER GEOSPATIAL PROFESSIONAL OF THE YEAR

YOUNGER GEOSPATIAL PROFESSIONAL AWARD

THE AWARD:

The Younger Geospatial Professional of the Year Award (YGP of the Year Award) was announced at SPAR 3D Expo & Conference 2019. Brought to you by SPAR 3D wand Lidar News along with Leica Geosystems, this is a unique opportunity to recognize a YGP for her/his achievements in the 3D geospatial technology space.

WINNER ANNOUNCED IN YOUNGER GEOSPATIAL PROFESSIONAL OF THE YEAR AWARD (LIDAR NEWS)

Leica Geosystems LIDAR NEWS

SPECIAL ONSITE EVENTS AND SHOW HIGHLIGHTS

BYTES & BREWS

INTERACTIVE BIM CAVE FROM SANVEO

AEC LAUNCH PAD

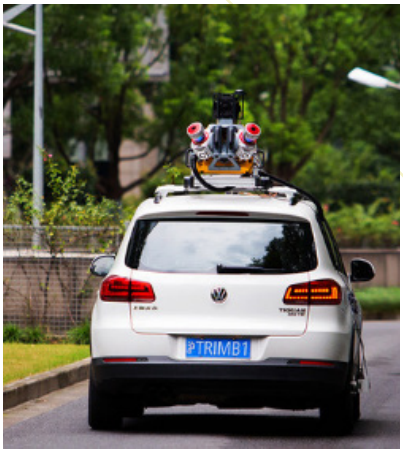
SPEED MENTORING HOSTED BY LET'S FIX CONTRUCTION

CONSTRUCTION PROGRESS COALITION: CDX CHALLENGES

HAPPY HOUR

BIM-R® CERTIFIED RESIDENTIAL BIM MANAGER

AIBD BIM R WORKSHOP



MOBILE MAPPING VEHICLES

USIBD™ U.S. Institute of BUILDING DOCUMENTATION

USIBD MEETUP

GLOBAL PORTFOLIO

AEC NEXT technology expo + conference

COMMERCIAL UAV EXPO AMERICAS

COMMERCIAL UAV EXPO EUROPE

COMMERCIAL UAV NEWS

DESIGN BUILD

DIGITAL CONSTRUCTION WEEK
INNOVATION IN THE BUILT ENVIRONMENT

GEO BUSINESS

GEO WEEK

INTERNATIONAL LIDAR MAPPING FORUM

SPAR3D

SPAR3D EXPO & CONFERENCE

TOTAL FACILITIES
CHAMPIONING HIGH PERFORMING ENVIRONMENTS

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AEC NEXT technology expo + conference

SPAR 3D EXPO & CONFERENCE

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JUNE 3–5, 2020

McCormick Place | Chicago IL

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