

SPAR International 2013 Education Credits Form

Please fill out your name and professional license information, then check off the sessions you attended, save as a new file, and send to Idehaan@divcom.com. You will then receive a Certificate of Completion which may be applied for credits toward professional license renewals.

Name: _____ Email: _____
 State(s): _____ License(s) e.g. PE, PL S: _____


MONDAY, APRIL 15

8:00-12:00	ASCE Workshop: LIDAR to Machine: Automated 3D Infrastructure Construction and Management Colorado Hall C
10:00-3:00	ASTM Committee E57 on 3D Imaging Systems Colorado Hall F
1:00-3:00	Esri User Meeting: Smart 3D City Modeling From Start To Finish Colorado Hall B
2:00-5:00	IAFSM Bullet Trajectory Documentation Workshop Bus leaves from entrance to Broadmoor Hall at 1:30pm
3:00-5:00	kubit User Workshop Colorado Hall C
3:00-4:00	<input type="checkbox"/> Lightning Round: Latest from Universities Colorado Hall A Learn about what's coming out of universities and consider possible collaborations as participants share 10 minute presentations on their latest 3D work for a range of applications. Continue the conversation in the University Pavilion.
3:00-5:00	<input type="checkbox"/> Pre-Conference Tutorial: Getting the Most Out of SPAR International 2013 Colorado Hall E/D Technology can be overwhelming; this session offers insight into prioritizing your time and asking the right questions. A review of the conference content will also help determine when you should shift focus from your own industry to learn new approaches from unexpected sources. <i>Presenters: Advisory Board Members Jody Lounsbury and Chris Zmijewski</i>
3:30-5:00	CO-MAPPS Chapter Meeting International Center South
5:00-6:00	Happy Hour – Exhibit Floor Sponsor: 
6:00-7:00	USIBD Workshop: Development of Industry Standards for Building Documentation Colorado Hall B

TUESDAY, APRIL 16

8:00-7:00	Exhibits open					
8:00-9:00	Breakfast, Networking & Exhibits Sponsor: 					
9:00-11:00	<input type="checkbox"/> OPENING & KEYNOTES International Center North Welcome: Lisa Murray, Director, SPAR Point Group, Diversified Business Communications Keynotes: <ul style="list-style-type: none"> - Michael Jones, Chief Technology Advocate, Google - Greg Bentley, CEO, Bentley Systems - Prof. (em) Heinz R��ther, Principal Investigator, Zamani Project 					
11:00-1:30	Lunch, Networking & Exhibits Sponsor: 	11:00-3:30				
1:30-3:00	<input type="checkbox"/> INDUSTRIAL FACILITIES Colorado Hall E/D New 3D Approaches for Industrial Inspection 3D models are providing the information engineers and budget-holders need to make critical decisions regarding component maintenance and repair, reducing overall cost of operations. <i>-Aaron Blaisdell, Principal Surveyor, PACE Engineers, Inc.</i> <i>-Marius Blom, Managing Director, Apply Capnor</i> <i>-Stephan Weiss, Technologist, Jet Propulsion Laboratory</i>	<input type="checkbox"/> CIVIL INFRASTRUCTURE Colorado Hall B End-to-End 3D Approaches Among DoTs Learn how each takes a different approach to 3D data capture through visualization and dissemination based on geography and other factors, and why. <i>-Ron Singh, PLS, Geometronics Manager/Chief of Surveys, Oregon DoT</i> <i>-Bradley Canaday, Metro Surveys Manager, Minnesota DoT</i> <i>-Curtis Clabaugh, State Photogrammetry & Surveys Engineer, Wyoming DoT</i>	<input type="checkbox"/> FORENSIC & SECURITY Colorado Hall F Recreating Crime and Accident Scenes Compares methods of capture which vary widely in accuracy, usability, transportability, cost and other factors. <i>-Christophe Lambert, Chief of Measure and Modelisation Unite, French Gendarmerie</i> <i>-Kirk McKinzie, Director of Fire and Explosion Services, Precision Simulations Inc.</i> <i>-Jim Wiethorn, Chairman of the Board/Principal Engineer, Haag Engineering</i>	<input type="checkbox"/> 3D BOOT CAMP 101 FOR BEGINNERS International Center South Designed for those new to 3D imaging. Learn the basics of tools available and considerations for investing including various capture, processing and visualization applications. <i>-Jody Lounsbury, 3DLS Manager, Clough Harbour & Associates</i> <i>-Allen Nobles, President, Nobles Consulting Group</i> <i>-Chris Zmijewski, Vice President, Haag 3D Solutions</i> <i>-Vince Zakrzewski, Senior Survey Project Manager, Langan</i>	TECHNICAL SEMINARS Colorado Hall C Newest supplier advances and best practices. 1:00 RIEGL USA 2:00 Autodesk 3:00 FARO	LIVE DEMOS Crime Scene Exhibit Hall 11:00 Z+F 11:30 Mantis Vision 12:00 Trimble 12:30 Autodesk 1:00 Crime Sciences 1:30 RIEGL USA Equipment Removal in an Industrial Facility Broadmoor Mechanical Room 1:00 Trimble 1:30 Leica Geosystems 2:00 Z+F 3:00 Mantis Vision Measuring Progress on a Job Site West side of Broadmoor Hall 1:00 Mantis Vision 1:30 Autodesk 2:00 3D Laser
3:00-3:30	Coffee, Networking & Exhibits					

TUESDAY, APRIL 16 CONTINUED

<p>3:30-5:00</p> <p>INDUSTRIAL FACILITIES Colorado Hall E/D Photogrammetry & LiDAR for As-Building Includes the importance and the feasibility of open ditch as-built with photogrammetry and LiDAR, and contrasts with GPS surveying. -Wayne Rodieck, Manager, Corporate Spatial Data, Anadarko Petroleum Corporation, and Dr. Jan Van Sickle, President, Van Sickle LLC -Ken VanBree, Owner, eBuilds -Paul E. Dorvel, Project Manager, Energy Consulting & Engineering Operation, SAIC</p>	<p>CIVIL INFRASTRUCTURE Colorado Hall B End-to-End 3D Approaches Among DoTs (continued) Presentations continue with UT DoT's plan to solve the challenge of end-to-end data capture. Ends with discussion of what DoTs need from industry. -Stan Burns, Asset Management Director, Utah DOT 5 minute updates from: John Caya, Mandli Communications; Kalvi Mani, Virtual Geomatics; Robert DeSanti, Deighton Associates; Tom Clemons, Bentley Systems Panel Discussion: Moderator Jonathan Porter, FHA -Ron Singh, OR -Bradley Canaday, MN -Curtis Clabaugh, WY -Stan Burns, UT</p>	<p>FORENSIC & SECURITY Colorado Hall F Admissibility of 3D Evidence Frye/Daubert criteria will be applied to 3D imaging and how to present your data effectively in court as an expert witness. -Dr. Damian Schofield, Director of Human Computer Interaction, State University of New York (Oswego) -Jason Barr, Forensic Scientist, Institute of Environmental Science & Research -Juliana Serna and Nathan Render, Detectives, Albuquerque Police Department</p>	<p>NEW TECHNOLOGIES International Center South Compact, Affordable 3D Capture Options Kinect, iPhone, and digital cameras and other small devices are making news, and are excellent for certain situations. Participants share lessons learned from applications for capture to workflow and integration. -Chris Slaughter, Founder and CEO, Lynx Laboratories -Dr. Benjamin Braker, CTO, Chiaro Technologies LLC</p>	<p>TECHNICAL SEMINARS Colorado Hall C Newest supplier advances and best practices. 4:00 Surphaser</p>	<p>GIS WORKSHOP I Colorado Hall A Participate in this instructor-led, hands-on workshop and learn how to manage and share LiDAR with GIS. Sponsored by:  Registration required. FULL</p>	<p>LIVE DEMOS Equipment Removal in an Industrial Facility Broadroom Mechanical Room 3:30 Autodesk Indoor Mobile Mapping Route start: Registration area 3:30 Viametris 4:00 3D Laser Mapping 4:30 Autodesk</p>
--	--	--	--	---	--	--

5:00-7:00 Industry Reception - **Exhibit Hall** Sponsor:  **Bentley**
 Sustaining Infrastructure

7:30 Dinner Roundtables - **Golf Club Dining Room**

WEDNESDAY, APRIL 17

8:00-5:00 Exhibits open



8:00-9:00 Breakfast, Networking & Exhibits Sponsor:  **URC VENTURES**

9:00-10:30

<p>INDUSTRIAL FACILITIES Colorado Hall E/D Managing Data Complexity, Capture to Processing Includes accuracy, severability of the data, enterprise usage & handling of large file sizes, linking data to models, model validation, and plugging PC data directly into workflow. - Amadeus M. Burger, President, CSA, Inc. -Eric Hoffman, CEO, Quantapoint -Joseph Chumbley, Senior Systems Engineer, Lockheed Martin</p>	<p>BUILDING & ARCHITECTURE Colorado Hall B Improving Efficiency Will examine best practices for using and integrating the most common tools for building and architecture, from capture to deliverable. -Larry Kleinkemper, AIA, Owner, Lanmar Services -Steven Schorr, President, and Hugh B. Borbidge, DJS Associates, Inc. -Nadia Anis, AIA, Ferrari Moe, LLP</p>	<p>CIVIL INFRASTRUCTURE Colorado Hall F Large-Scale Infrastructure Projects: State of 3D Technology and What's Ahead Which technologies are proving most successful for collecting and disseminating our state and national infrastructure information? -Jim Brainard, Principal Surveyor, REY Engineers, Inc. -Chris Siebern, Senior Technologist, HNTB -Michael Olsen, Assistant Professor, Oregon State University, Gene V. Roe, Managing Editor, LiDAR News Brief Updates From: -Nick Palatiello, MAPPS -Rob Dingess, GTMA</p>	<p>NEW TECHNOLOGIES International Center South 3D Printing Applied The 3D deliverable is the new frontier. Learn new applications for collaboration and sharing the environment among multiple function groups. -Phil Magenheim, 3DMTP USA -Thad Wester, Founder, Clarity Scanning -Michael Raphael, President & CEO, Direct Dimensions, Inc.</p>	<p>SUBTERRANEAN APPLICATIONS Colorado Hall A 3D for Mining and Tunnels These environments present unique challenges technologically and environmentally. Learn new approaches from capture to visualization. - Andrew Chapman, Production Systems Engineer, Barrick Gold Corporation and Mike Sekerka, Chief Operating Officer, Neptec -Timo Cronvall, Head of Design, VR Track Oy</p>	<p>TECHNICAL SEMINARS Colorado Hall C Newest supplier advances and best practices. 9:00 Z+F 10:00 Leica Geosystems</p>	<p>LIVE DEMOS Measuring Progress on a Job Site West side of Broadroom Hall 10:00 Leica Geosystems 10:30 Mantis Vision</p>
---	---	---	--	--	--	--

10:30-11:00 Coffee, Networking & Exhibits

WEDNESDAY, APRIL 17 CONTINUED

11:00-12:30						
<p>INDUSTRIAL FACILITIES Colorado Hall E/D 3D & Virtual Simulation for Operations & Maintenance; Crisis Management Operators are acquiring new spatial awareness and orientation of facilities, learning SOPs, safe work practices and safety drills, prior to setting foot on the platform. -Amir Anvar, R&D/Emerging Solutions Engineer, and Christopher Fisher, Upstream Workflow Transformation Engineer, Chevron -Stephen Dudzik, Process, Automation & Concepts, PAC Ltd.</p>	<p>BUILDING & ARCHITECTURE: FUTURE TECHNOLOGIES Colorado Hall B Future of 3D Technology An exciting look at what's ahead for architects and builders, and possibilities for integrating into the outside environment. -Erin Rae Hoffer, AIA LEED BD+C, Industry Strategy, Autodesk Inc. -Jerry Boyd, Project Manager, Merrick & Company -Pat Carmichael, Manager of Advanced Technologies, HKS, Inc.</p>	<p>FORENSIC & SECURITY Colorado Hall F 3D Visualization and Animation for Court Cases Advances in 3D technology include virtual scenes which provide courts with information previously unattainable. -Jason Barr, Forensic Scientist, Institute of Environmental Science & Research -Joe Mullins, Forensic Imaging Specialist, National Center for Missing and Exploited Children -Steven Schorr, President, and Hugh B. Borbidge, DJS Associates, Inc.</p>	<p>NEW TECHNOLOGIES International Center South Integrating Data from Multiple Sensors/Data Fusion Learn how these tools are put into action for applications ranging from an international airport to the path of a tornado. -Brian D. Bailey, Geospatial Services, Maser Consulting, and Josh France, Mobile Systems Segment Manager, Riegl USA -Keith A. Warren, BIM/ Visualization Manager, Associate, VTN Consulting -Daniel Stonecipher, CEO & President, Immersivx and Dennis Rodriguez, Denver International Airport</p>	<p>TECHNICAL SEMINARS Colorado Hall C Newest supplier advances and best practices. 11:00 Trimble</p>	<p>GIS WORKSHOP II Colorado Hall A Participate in this instructor-led, hands-on workshop on 3D Mapping Sponsored by:  Registration required. FULL</p>	<p>LIVE DEMOS Crime Scene Exhibit Hall 12:30 FARO Technologies 1:00 Leica Geosystems Measuring Progress on a Job Site West side of Broadmoor Hall 11:00 3D Laser Mapping 11:30 Autodesk 1:00 Trimble</p>
12:30-2:00 Lunch, Networking & Exhibits Sponsor: 						
2:00-3:30						
<p>INDUSTRIAL FACILITIES & MANUFACTURING Colorado Hall E/D Short-Range and Reverse Engineering Learn how the high accuracy of white, blue and red light scanning and reverse engineering has garnered a foothold in discrete manufacturing and is being applied in different ways. -David Gagné, Vice President, Metrology and Engineering Services, Creaform</p>	<p>BUILDING & ARCHITECTURE Colorado Hall B Building Information Modeling (BIM) Candid examination of acquiring accurate as-built documentation, meshing scan data with BIM, integrating FM for infrastructure including impact of BIM mandates in Europe. -Kelly Cone, Director of Innovation, The Beck Group -Darrell Wright, BIM Manager, Cobb Mechanical Contractors & Greg Lawes, Principal, Meridian Associates -Keith Roberts, Technology Manager, SSM Group, Inc.</p>	<p>FORENSIC & SECURITY Colorado Hall F 3D-Based Investigation Workflows While data capture is oft-discussed, work processes are not. This session looks at workflow requirements from capture to deliverable for criminal and security applications. -David Dustin, President, Dustin Productions LLC -Andre Stuart, CEO, 21st Century Forensic Animations -Andrew Fredericks, Forensic Video Technician, Forensic Video Solutions</p>	<p>NEW TECHNOLOGIES & APPLICATIONS International Center South Unique Applications for 3D Imaging Uses for visualizing data in 3D are constantly expanding, and often in industries you may not have considered. Discover new ways of thinking about problem-solving. -Jeff White, FFX Supervisor, Industrial Light & Magic -Stephan Weiss, Technologist, Jet Propulsion Laboratory -Jan-Michael Frahm, Asst. Professor, University of North Carolina at Chapel Hill</p>	<p>TECHNICAL SEMINARS Colorado Hall C Newest supplier advances and best practices. 2:00 Optech 3:00 Bentley Systems</p>	<p>LIVE DEMOS RESULTS Colorado Hall A Presentation of results for Live Demo: Equipment Removal in an Industrial Facility</p>	
3:30-4:00 Coffee, Networking & Exhibits						
4:00-5:30						
<p>UNDERWATER & BATHYMETRY Colorado Hall F Challenges, limitations, and benefits associated with using 3D photogrammetry and other underwater measurement technologies. -Marie MacCormick, Lead 3D Projects Engineer, Welaptega Marine Limited</p>	<p>BUILDING & ARCHITECTURE Colorado Hall B Building Information Modeling (BIM) Presentations are followed by a frank discussion of BIM lessons learned from each participant. -Alexandra Grounds, Director of Applied BIM Technologies, Amtech Group -Ken Smerz, CEO/President, Precision 3d Scanning and Thai Nguyen, National BIM Director, Hensel Phelps Panel discussion led by Birgitta Foster, buildingSMART alliance Panelists: Ken Smerz; Thai Nguyen; Alexandra Grounds; Kelly Cone; Pat Carmichael; Larry Kleinkemper</p>	<p>DIGITAL HISTORIC PRESERVATION Colorado Hall E/D LIDAR and Photogrammetry; UAVs Sites of historic importance are being digitally preserved using exciting new methods. -Tom Noble, Bureau of Land Management, National Operations Center (NOC), and Michael Nulty, Documentation Coordinator, University of Colorado Denver -Karel Pavelka, Professor, Czech Technical University, Prague -Steven Schorr, President, and Jon W. Adams, DJS Associates, Inc.</p>	<p>NEW TECHNOLOGIES International Center South University-Company Collaborations, and Latest from Universities Content and panel discussions about university-company collaborations, latest from universities, and commercial applications. -H. Scott Halliday, Navajo Technical College, and Brandon Garrett, Digital Design Manager, Dekker/Perich/Sabatini Brief presentations from: -Yonsei University -Chalmers University of Technology -University of South Florida -University of Texas at Dallas Panel discussion led by Georgia Fotopolous, Assoc. Professor, University of Texas at Dallas</p>	<p>TECHNICAL SEMINARS Colorado Hall C Newest supplier advances and best practices. 4:00 Topcon</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">FORENSIC & SECURITY IAFSM Best Practices Meeting Colorado Hall A</p>	

THURSDAY, APRIL 18

8:00-12:00 Exhibits open

8:00-9:00 Breakfast, Networking & Exhibits Sponsor: 

9:00-10:30

INDUSTRIAL FACILITIES
International Center South
New Tools & Applications
 Latest advances are shown and audience interaction encouraged.
 - Mike Sekerka, Chief Operating Officer, Neptec
 - David Colleen, CEO, Planet 9 Studios
 - Siro Kim, Director of HDS Business Development, Wipco, Ltd.

CIVIL INFRASTRUCTURE
Colorado Hall B
Complex 3D Projects in Urban Environments
 Using different technologies including above and below ground, infrared and integrating these pieces is the focus of this session.
 -Kourosh Langari, Senior Project Engineer, URS Corporation
 -Marco Vidali Castillo, BIM Director, ICA
 -Michael Twohig, Advanced Utility Locating & Mapping Consultant, DGT Survey Group

DIGITAL HISTORIC PRESERVATION
Colorado Hall E/D
Case Studies
 Selected examples of 3D applied to preserving our collective heritage will inspire and educate.
 -John D. Meneely, School of Geography, Archaeology and Palaeoecology, Queens University Belfast
 -Lori Collins, Ph.D., Research Assistant Professor/Director, Alliance for Integrated Spatial Technologies, University of South Florida
 -Trevor Pasika, 3DLS Project Manager, Stantec

FORENSIC & SECURITY
Colorado Hall F
Presentation of Results for Mock Crime Scene
 The CSI world has much to share with outside industry, as can be seen in the approaches to industrial accidents.

LIVE DEMOS RESULTS
Colorado Hall A
 Presentation of results for Live Demo: Measuring Progress on a Job Site

10:30-10:45 Break

10:45-11:45

INDOOR MOBILE MAPPING DEMOS
Colorado Hall A
 Attendees will have seen the mobile mappers and handheld units in action throughout the conference. This session will show the captured data and deliverables.
 -Dr. Aaron Morris, Product Manager, Reality Capture Group, Autodesk
 -Sam Billingsley, PLS, Vice President, SmartGeoMetrics
 -John Arnold, VP-North America, 3D Laser Mapping

CIVIL INFRASTRUCTURE
Colorado Hall B
3D/4D GIS
 Pavement management, forestry and other applications demonstrate what's possible for 3D GIS and beyond.
 - Kevin Gilson, Project Visualization, Parsons Brinckerhoff
 - Mike Maylone, Product Manager, Intermap Technologies and Patrick Cunningham, President, Blue Marble Geographics

DIGITAL HISTORIC PRESERVATION
Colorado Hall E/D
Disseminating 3D Data Among Multiple Users
 The power is in the deliverable, and this session explores latest visualization applications.
 -Russell Gibb, Managing Director, Geometria Limited
 -Dr. Herbert Maschner, Director and Professor, Idaho Museum of Natural History

NEW TECHNOLOGIES & APPLICATIONS
International Center South
Open Source: Update and What's Ahead
 Learn about progress in the world of Point Cloud Library (PCL).
 -David Boardman, CEO, URC Venturess

11:50-12:30 **End User Wrap-Up Colorado Hall B**
 Numerous technologies and applications will have been explored throughout the conference. Which technologies are of particular interest to end users and why? How have your own plans changed for future technology investments? End users share views based on their needs, don't miss it!

Post-Conference Workshops & Meetings

12:30-1:30 IAFSM Business Meeting **Colorado Hall F**