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Business and technology trends in capturing and managing existing-conditions data for engineering / construction / operations

## SPAR 2006: Capturing and Documenting Existing-Conditions Data for Design, Construction and Operations

March 27-28, 2006, Sugar Land Marriott Town Square, Sugar Land (Houston), Texas, USA

### SPAR 2006: Capturing and Documenting Existing-Conditions Data for Design, Construction and Operations

SPAR 2006 will continue the goals outlined at SPAR 2005 last May – the conference will detail the business case for investing in advanced dimensional control work processes and 3D laser scanning hardware and software technologies. Brian Collins, P.E., Ph.D., and Robert Kayen, P.E., Ph.D., Research Civil Engineers, **U.S. Geological Survey**, will describe 3D laser scanning New Orleans' damaged levee systems after Hurricane Katrina. Bryan Wallace, Alvheim Project Engineering Manager, **Marathon Petroleum Company (Norway)**, will discuss the impact of 3D laser scanning on planning and execution of the Alvheim FPSO conversion project.

#### New at SPAR 2006

Industry-focused tracks on...

- Process and power generation
- Civil and transportation infrastructure and buildings
- Forensic and crime scene investigation
- Geotechnical – mines, dams, earthworks, geological features
- Discrete manufacturing – automotive, aerospace, shipbuilding
- Emerging safety, instrument calibration and data exchange standards

...will help participants spend their time efficiently in sessions of particular importance to their industry.

Terje Birkenes, Company Representative, Laser Scanning Contracts, Technology and Projects, **Statoil ASA**, will kick off the conference's *Process and Power* track. Mitchell Wimbush, P.S., Manager, Laser Scanning Services, **Midwestern Consulting LLC**, Frances Bonet, Project Engineer, **Turner Construction Company**, and others will be featured in the *Civil/Transportation/Buildings* track. Carl Adrian, Visual Information Specialist – Examiner, Laboratory Division, **FBI**, will lead off the *Forensic* track. Bob Curtis, CIH (invited), Director, Program Support Division, Directorate of Science, Technology and Medicine, **OSHA**; Alan Lytle, Leader, Construction Metrology and Automation Group, **NIST**, and others will present in the *Standards and Safety* track. Chris Burt, Civil Engineer, **F. Robert Bell**, will participate in the *Geotechnical* track. Michael Raphael, President, **Direct Dimensions, Inc.**, will present in the *Discrete Manufacturing* track.

Colin Fairweather, Engineering Systems Manager, **AMEC**; Lona Shaw, Metrology CADD Specialist, **Framatome ANP, Inc.**; Jordan Brandt, **Harvard Graduate School of Design**, and Michael A. Clifford, Principal-in-Charge, **DGT Survey Engineering Group**; Sam Billingsley, Project Manager, **Satellite Data Systems**; Jody Lounsbury, Director, High Definition Survey Services, **M.J. Engineering & Land Surveying, P.C.**; Derry Long, Marketing Manager, **Plowman Craven & Associates**; Steven M. Schorr, P.E., President, and Andrew Durian, BSME, Accident Reconstruction/Computer Animation Specialist, **DJS Associates Inc.**; Willem van Spanje, President and CEO, **DelftTech BV**; Bill Ertle, President, **Rockwell Laser Industries**; Lewis Graham, President and Chief Technical Officer, **NIIRS10, Inc.** (Lead, ASPRS LIDAR data specifications working group) and others will also make presentations.

SPAR 2006 will close with a look ahead – in a *Futures* session, James Siepmann, Chief Research Officer, **LightTime LLC**, will speak on MEMS-based scanner technology, while Michael Jemtrud, Director, Carleton Immersive Media Studio, **Carleton University School of Architecture**, will present research into advanced visualization techniques for existing-conditions data.

#### Sponsors

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Trimble and Z+F will all demonstrate their newest technology and service capabilities. Media sponsors include *The American Surveyor*, *CAD&rit-nytt*, *Marine Log* and *POB Magazine*.

#### **Who attends?**

Project managers, engineering leads, construction managers, survey heads and asset managers from surveying, civil infrastructure, process manufacturing, fossil and nuclear power, transportation, offshore construction, automotive and other discrete manufacturing, mining and resource management, shipbuilding, defense and security organizations.

#### **Conference take-aways**

Learn how to:

- Drive rework costs and construction growth to below 1% from current 5% or greater levels on revamp and modification projects
- Reduce project schedule and limit downside exposure to schedule change and scope creep
- Improve dimensional control for new construction and revamp projects
- Improve safety of survey operations by removing personnel from harm's way through remote data capture
- Minimize facility outage and shutdown time with improved construction sequencing and planning visualization
- Get more value from previously purchased laser scanning hardware and software by refining survey, design, fabrication and construction work processes and improving post-processing efficiency
- Improve the specification of deliverables and quality of these deliverables on upcoming laser scanning projects
- Use advanced laser scanning techniques to reduce the cost of survey work currently executed with manual methods and older technology. Learn when to stay with traditional methods
- Improve accountability of engineering, fabrication and construction
- Minimize disruption and inconvenience to the public for road, bridge and tunnel projects
- Understand and assess the capabilities of the world's leading suppliers of terrestrial laser scanning software and hardware to support your project execution processes
- Decide what capabilities are needed in-house for successful project execution and what is best sourced to third-party service providers

SPAR 2006 is the third annual Spar Point Research conference focused on advanced dimensional control work processes and 3D laser scanning technologies. SPAR 2005 attendance topped 374 from 20 countries.

More details are available at [SPAR 2006 – register now](#) for early-bird discount!