Delivering Underground Construction Projects with BIM: A Virtual Design and Construction Experience

Jay Mezher, Architect for Parsons Brinckerhoff VDC/BIM Group
Joe O’Carroll, Vice President and Practice Leader for Parsons Brinckerhoff

WEDNESDAY, March 25th at NOON in BB W280
- Lunch Provided –

Parsons Brinckerhoff has adopted Building Information Modeling (BIM) and Virtual Design and Construction (VDC) as the leading technologies for improving project design and delivery. Through BIM/VDC, PB applies an “information model” approach to project delivery processes to eliminate inefficiencies and error, and reduce risk. This multi-disciplinary management process uses an interactive building information models, 3D and 4D models, cost resources and risks to represent the project and its individual components for project planning, design, construction, implementation and facility management. High level BIM/VDC implementation provides enhanced risk management, substantial productivity gains, shortened construction time scales, and significant cost savings over the project lifecycle. The presentation will be focused on the current state-of-the art for BIM/VDC implementation on Tunneling and Underground Structures including a few demonstrator projects where VDC is being applied during design and construction.

Jay Mezher is a licensed architect specializing in Virtual Design and Construction/Building Information Modeling (VDC/BIM). Jay’s responsibilities include managing Parsons Brinckerhoff’s VDC/BIM group and directing the Parsons Brinckerhoff global working group for BIM transformation. His significant projects include the SR 99 Tunnel in Seattle, and the East Side Access tunnel and Bayonne Bridge replacement in New York.

Joe O’Carroll is a Vice President and Practice Leader of Geotechnical & Tunneling at Parsons Brinckerhoff. Joe has over 30 years in tunneling and underground design and construction in the US, Europe, Asia Pacific and Africa. Joe is an expert in risk analysis and risk management of underground infrastructure, recently co-authoring “Guidelines for Improved Risk Management of Tunnels and Underground Projects in the United States” on behalf of UCA of SME.

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