

# SEA of South Carolina

## Greenville Chapter Newsletter

### Meeting Notice

Presenter: **Aaron Goldstein, P.G. & James Slusher, P.E.**

**Summit Engineering**

Topic: Subsurface Information Modeling

Date: Wednesday, **March 1<sup>st</sup>, 2023**

Time: 12:00 pm to 1:00 pm

Location: **100 Executive Center Dr. Ste 100**  
Greenville, SC 29615



Please RSVP to [achalker@base91.com](mailto:achalker@base91.com) by Monday, February 27<sup>th</sup> to reserve a lunch.

**\*\*Please notify Austin of any dietary restrictions when you RSVP**

Please arrive early to pick up your lunch so that the meeting can start promptly at 12pm.  
Contact Austin should you need to cancel to avoid leftover lunches.

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### Meeting Agenda

- Registration/Pick up lunch (11:40am to 12:00pm)
  - Presentation and Q&A (12:00pm to 1:00pm)
  - Chapter Business and Closing (1:00pm to 1:15pm)
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### **Presentation Overview**

Aaron Goldstein, P.G. and James Slusher, P.E. are industry leaders in geophysics, surveying, and geological engineering to help resolve subsurface issues.

This presentation will be about Subsurface Information Modeling (SIM), Subsurface Mapping, and Reality Capture utilizing advanced geophysical and surveying techniques. We will discuss the benefits of utilizing these types of services during the pre-planning and design phase for projects, including advanced ways to visualize data, such as buried underground utilities, and incorporate the data in downstream Building Information Model (BIM) workflows. See attached brochure for more information.

PDH's for this presentation will be provided electronically.

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### Announcements

1. **We Want to Hear from You** – If you have suggestions for meeting topics or speakers, please share your ideas with your SEA officers. Are there webinars or recorded sessions from NCSEA, AISC, ACI, or other organizations you have been wanting to see but can't find the time? Would using one of our quarterly meetings to view these webinars be of interest? Let us know. This is your chapter and we strive to find content that will benefit area Structural Engineers.



MIXED REALITY  
INTEGRATION

# Virtual Design Consulting

Advancing the AEC Industry through Integrated Subsurface & Building Information Modeling

The Virtual Design Consulting Group at SUMMIT works closely with architects, engineers, and contractors to help integrate and manage subsurface and building information models (SIM/BIM) for design-construction projects.

We provide technology-based professional consulting that

creates digital models of building components, project sites, subsurface utilities, and geological conditions. Our designers can use these models to visualize and plan building designs, processes, schedules, budgets, and more, enabling our clients to make informed, real-world decisions about their assets.

Summit's highly-skilled and experienced team of specialists uses advanced geophysical techniques, surveying, laser scanning, and 3D modeling to combine valuable underground information with BIM to create the most comprehensive and accurate design models in the industry.

[SUMMIT-COMPANIES.COM](http://SUMMIT-COMPANIES.COM) | [UNIVERSALENGINEERING.COM](http://UNIVERSALENGINEERING.COM)

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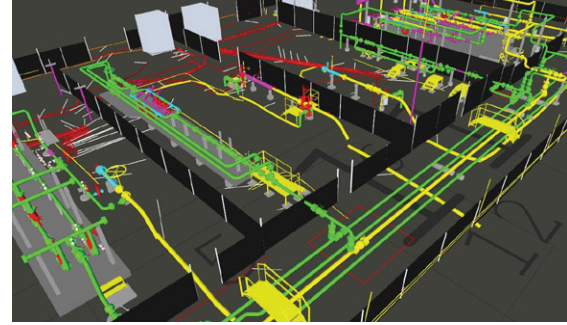


## VDC SERVICES INCLUDE:

- Subsurface utility engineering mapping
- Information modeling (SUE/SUM/SIM); as-built & post-built utility drawings
- 3D laser scanning
- Clash detection
- Geotechnical risk assessment
- Subsurface environmental investigation

- Structures evaluation
- Various other smart city/plant solutions involving digital-twins, mixed reality, IoT, and artificial intelligence.

Deliverables can be presented as a standalone subsurface information model or combined with our client's BIM product using Civil 3D, Navisworks or Revit.



## SUBSURFACE INFORMATION MODELING (SIM)

### BENEFITS OF SIM/BIM

- One Seamless Model
- 2D or 3D Options
- Integrates Below/Above Ground
- Reliable Utility As-Built
- Analyzes Clashes & Conflicts
- Reduces Soft-Digging
- Assesses Structural Conditions
- Monitors Construction Progress
- Develops Real Estate Floor Plans
- Preventative Maintenance
- Efficient AEC/EPC Progress
- Limits Costly Shutdowns
- More Timely Construction
- Technology Integration
- Greenfield or Brownfield Sites
- New Construction or Renovations
- Increases Safety and Profitability
- Decreases Construction Risk

## SUBSURFACE UTILITY ENGINEERING (SUE)



To schedule a presentation, please email [VDC@summit-companies.com](mailto:VDC@summit-companies.com)



**DOUGLAS J. CURLEY, P.E.**  
President  
[dcurley@summit-companies.com](mailto:dcurley@summit-companies.com)



**ROBERT MCDONNELL**  
Senior Vice President  
[rmdonnell@summit-companies.com](mailto:rmdonnell@summit-companies.com)



**ANDREW COFFEY**  
Senior Project Manager  
[acoffey@summit-companies.com](mailto:acoffey@summit-companies.com)

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