



## 38<sup>TH</sup> ANNUAL MEETING EDUCATION SESSION AGENDA WITH ABSTRACTS AND BIOS

### THE CLIFFS HOTEL + SPA | SHELL BEACH, CA

### FRIDAY, MAY 20, 2022

7:00am – 7:45am | **Breakfast:** sponsored by Con-Tech Systems

7:45am – 8:00am | **INTRODUCTIONS:** Chuck Danache, Keller Foundation, and Tait McCutchan, Malcolm Drilling

8:00am – 8:45am | **SAN DIEGO COURTHOUSE COMMONS TUNNEL:** Gabriel Carvajal, Condon-Johnson & Assoc.

Gabriel will be presenting on the construction aspects of the San Diego Courthouse Commons Tunnel project, regarding the shaft shoring and tunnel canopy tubes.

*Gabriel Carvajal is a project manager at Condon-John nearing two decades of engagement within the geotechnical specialty construction industry. Gabriel joined CJA in 2013 and has served as project manager on numerous projects – design-build and design-assist with scopes ranging from ground improvement, deep foundations including piling and drilled shafts, and earth support (both permanent and temporary). He has adeptly provided project oversight, estimated, and managed schedules, documents, personnel, client relations, and safety.*

8:45am – 9:30am | **NORTHWEST ARIZONA DRILLED SHAFT:** Aaron Thomas, Keller Foundation

Aaron Thomas and Jared Mangino will present on a challenging drilled shaft project in Northwestern Arizona. The remote location, concrete supply, and difficult drilling conditions made for a challenging project over 100' down in the canyon. Half of the pier shafts were installed under the existing I-15 bridge requiring spliced cages with integrity testing required.

*Aaron Thomas, P.E. is a Project Executive for Keller North America with over 20 years of experience in geo-construction. He obtained his B.S. in Civil Engineering from Arizona State. Aaron started working for Keller in 2008 as a project manager. He has worked on foundation projects in Arizona, California, Nevada, and New Mexico.*

*Jared Mangino joined Keller in 2005, working as a field engineer out the Philadelphia office. He has worked through the Keller organization as a Project Engineer, Project Manager, Special Projects Manager, Project Executive, and now as Branch Manager for the Desert Southwest. As a project manager Jared managed such projects as the Plant Vogtle Nuclear Power Plant (GA), Capital Crossing Project (DC), PSEG -North Central Reliability project (NJ), and Vandelay Data Center (TN). In Jared's current role as Branch Manager for the Desert Southwest Branch, he focuses his efforts on managing the Phoenix and Las Vegas offices of Keller. Jared attended New Jersey Institute of Technology receiving a master's in civil engineering, and Penn State University receiving a BS in Telecommunications.*

9:30am – 10:00am | **THE HISTORY CHANNEL, CURSE OF OAK ISLAND:** Vanessa Lucido, ROC Equipment

ADSC Associate Member ROC Equipment has been fortunate to have been invited to share in the adventure of a 200-year-old treasure hunt on Oak Island, located on the Atlantic Coast in Nova Scotia, Canada. ROC has been involved with 6 seasons of drilling and placing 1500mm to 3000mm shafts up to 211ft deep in an area called the "Money Pit". Several methodologies have been used to explore and excavate, including telescoping casing, RCD, airlifting, and grab operations. All casing has been installed with use of a BUMA oscillator. The project's remote location, underground structures, and performing work scope with a camera and microphone on at all times makes this project uniquely difficult.

*Vanessa Lucido has been in the drilling industry for 18 years. She holds an MBA and is the owner and CEO of ROC Equipment and ROC Rescue Ranch. Prior to her involvement with ROC, she was a Project Manager and Safety Director for Becho, Inc. on large projects, including the Planet Hollywood Towers in Las Vegas, Nevada and the Transbay Transit Center in San Francisco, California. Ms. Lucido was on the ADSC/NCCCCO Drill Rig Certification Task Force and is on several committees for ADSC and DFI. In 2021, Ms. Lucido was awarded ENR's Top 20 Under 40 Young Professionals.*

10:00am – 10:30am | **Coffee Break:** sponsored by Pinnacle Drilling Equipment

**10:30am – 11:15am | CENTENNIAL CORRIDOR MAINLINE: Will Gehrke, Case Pacific**

Large Diameter CIDH Concrete Pilings installed with Mineral Slurry - The Centennial Corridor Mainline Project constructs a new alignment and provides route continuity for State Route 58 from Cottonwood Road on existing State Route 58 to Interstate 5. This project extends State Route 58 from the current terminus as a freeway at State Route 99 to Westside Parkway. The Centennial Corridor Mainline Project is one of many infrastructure projects that are part of TRIP program in the heart of Bakersfield, California.

*Will Gehrke, Case Pacific - Attended college at Cal Poly San Luis Obispo graduating in 2006 with a bachelor's degree in Construction Management and began working for Case Pacific Company shortly thereafter. Will is currently Vice President of Case Pacific Company and has minority ownership. Will served on the ADSC Board of Directors for the West Coast Chapter for nine years including three years as the President and is currently serving a 3-year term on the ADSC International Board of Directors.*

**11:15am – 12:00pm | WASHINGTON STATE CONVENTION CENTER: Mihir Bharmal and Bryce Niekamp, DBM Contractors**

ADSC member DBM Contractors designed and installed over 100,000 square feet of temporary shoring up to 60 feet below grade at the Washington State Convention Center Addition project in Seattle, WA. This project was surrounded by numerous constraints such as buried tunnel structures, an Interstate highway, existing foundation elements from an adjacent bridge and staged demolition of existing structures onsite. This required a highly complex and adaptable shoring design which consisted of anchored piles and raker braces. Additionally, a number of temporary ramps and bridges were erected by DBM to maintain surrounding traffic and site logistics.

*Mihir Bharmal, DBM Contractors, Estimator/Project Manager – Mihir Bharmal is currently a project manager and estimator for DBM Contractors, a Seattle based geotechnical contractor. Mihir graduated from the University of Mumbai in 2013 with a bachelor's degree in civil engineering and from the University of Washington in 2016 with a master's degree in construction management. Mihir has over 5 years of specialty geotechnical design and construction experience including anchored soil nailed and reinforced soil earth retaining structures, installation of micropiles, construction dewatering and deep foundations. Mihir has acted as a project engineer, design engineer, estimator, and project manager on projects across the Pacific Northwest. Mihir is a registered Engineer-in-Training in Washington.*

*Bryce Niekamp PE, DBM Contractors, Senior Project Manager - Bryce Niekamp is currently a senior project manager and estimator for DBM Contractors, a Seattle based geotechnical contractor. Bryce graduated from University of Washington in 2006 with a BSCE degree in civil engineering. Bryce has over 15 years of specialty geotechnical design and construction experience including anchored soil nailed and reinforced soil earth retaining structures, design, and installation of micropiles, construction dewatering and deep foundations. Bryce has acted as a project engineer, design engineer, estimator, and project manager on projects across the Western United States. Bryce is a registered Professional Engineer in California and a member of ASCE, ADSC-IAFD, and DFI.*

**12:00pm – 1:00pm | Lunch: sponsored by PJ's Rebar**

**1:00pm – 1:30pm | CLIMATE PLEDGE ARENA JOINT VENTURE: Mihir Bharmal and Bryce Niekamp, DBM Contractors and Adam Running, Malcolm Drilling**

ADSC members Malcolm Drilling and DBM Contractors teamed up to construct 178,000 square feet of permanent shoring and over 160 drilled shafts as part of the renovation/expansion of the iconic Seattle Center Arena in Seattle, WA. This project had a variety of unique challenges including temporarily supporting and suspending a 44-million-pound roof during excavation, installation of drilled shafts in extremely tight and limited headroom conditions and installing a shoring system with complex geometry and sequencing.

*Adam Running, Malcolm Drilling, Project Manager and Estimator – Adam Running is currently a project manager and estimator specializing in the Pre-construction, Design Build and Constructability for the private development sector of the greater Puget Sound Area. Adam graduated from the University of Washington in 2005 with a degree in Construction Management. Approaching 17 years of construction experience, Adam has worked for Malcolm for the past 7 years on projects ranging from drilled shafts, shoring, micropiles, ground improvement and dewatering.*

*See above (Washington State Convention Center) for Bharmal and Niekamp biographies.*

**1:30pm – 2:15pm | SR99 CONSUMES RIVER: Eleazar Sotelo, Malcolm Drilling**

As the lowest responsive bidder, Malcolm Drilling Company was subcontracted to install the deep foundations for the Los Gatos Creek Bridge Replacement Project for the Peninsula Corridor Joint Powers Board (Caltrain). The project consisted of building a new bridge for a tail track as well as replacing existing bridges on two mainline tracks over Los Gatos Creek. Unique challenges included working in areas with limited access, working directly under 115kV Transmission Lines, working adjacent to live passenger and cargo train traffic, all within a single "Creek Work Window" between June 15th and October 15th.

*Eleazar Sotelo, Malcolm Drilling Company, Project Manager/Estimator –Eleazar Sotelo graduated from California Polytechnic State*

*University, San Luis Obispo in 2003 with a Bachelor of Science degree in Civil Engineering. Eleazar has worked with Malcolm for over 18 years, primarily specializing in the construction of drilled shafts, secant pile walls and design-build of large diameter auger cast piles. Eleazar spent his first 8 years at Malcolm exclusively working in the Las Vegas private market tackling the fast-paced Casino/Resort projects. Since then, Eleazar has worked as a project manager and estimator on many exciting and challenging projects for Malcolm in Northern California.*

**2:15pm – 3:00pm | NCCCO DRILL RIG OPERATOR CERTIFICATION AND NAIT TOWN HALL: Rick Marshall, ADSC and Kevin Sharp, Traxxon**

This presentation will offer a review of the NAIT (Northern Alberta Institute of Technology) Foundation Drill Rig Operator Course, the ADSC/NCCCO Foundation Drill Rig Operator Certification Program, and each program's status to date. We will briefly review the written and practical Drill Rig Operator Exams and explain the difference between training and certification.

*Kevin Sharp is currently the Alberta Branch Manager for Traxxon Foundation Equipment located in Edmonton, Alberta, Canada. He has been in the drilling industry for 41 years, the first 23 years as an owner operator alongside his father, then working for the deep foundation department of a large powerline group who in 2006 purchased their company. For the past 4 years on the equipment sales side of the industry. Kevin served on the ADSC-IAFD board of directors for one term, was a member of several ADSC committees and task forces and served several years as the President of the ADSC Western Canadian Chapter. Kevin worked as the chair of the development group for the NAIT (Northern Alberta Institute of Technology) on the creating the online Foundation Drill Rig Operator Program. Kevin also served as the Chair for the NCCCO/ADSC taskforce that developed and launched the NCCCO Certification for Drill Rig Operators. He is currently the chair of the NCCCO Drill Rig Operators Written Exam Committee. Kevin has a love for all things hockey but primarily Junior Hockey. He and his wife Juliette billet Junior Hockey players during the hockey season. Along with that he enjoys spending time with his four grandchildren.*

*Rick Marshall CHST, is Director of Safety for the International Association of Foundation Drilling, Irving Texas. He has worked for 50 years in the deep foundation construction industry, the last 30 in the OSH field. He is an authorized OSHA Construction Outreach Instructor and has a B.S. in Occupational Safety and Health Engineering, from Columbia Southern University. Rick is the current Chairman and co-author of ANSI/ASSP A10.19 – Safety Requirements for Pile Driving & Extraction Operations, Vice-Chairman, and co-author of ANSI/ASSP A10.23 - Safety Requirements for Drilled Shafts, and Chairman and co-author of ANSI/ASSP A10.30 – Safety Requirements for the Installation of Ground Anchors and Micropiles. He is a SME (Subject Matter Expert) for the Northern Alberta Institute of Technology Foundation Drill Rig Operators training course, and SME for the ADSC/NCCCO Foundation Drill Rig Operator Certification Exam Task Force.*