

## Work Group on Shaft Design and Construction (WG-23)

### 5<sup>th</sup> Webinar:

# "Seismic Design of Shafts in the Geologic-Tectonic Setting of the North American Pacific Northwest"

Presented By: Mike Wongkaew and Ulf Georg Gwildis

**Mike Wongkaew** ■ HNTB, Bellevue, Washington, U.S.A.

Mike Wongkaew, PhD, PE, SE is an Associate Vice President and National Tunnel Practice Lead – Northwest for HNTB Corporation. A licensed structural and civil engineer, he has 20 years of hands-on experience in the analysis, design and construction of tunnels, shafts and underground structures in soft ground for transportation and sewer projects in the seismically active western USA.

Mike received his bachelor's degree, master's degree and PhD in civil engineering from Purdue University. He has regularly published in the areas of underground engineering and seismic soil-structure interaction analysis and design. Prior to joining HNTB, Mike served as the chief tunnel engineer for Elon Musk's the Boring Company. Mike currently is leading the tunnel and underground engineering effort for Sound Transit West Seattle and Ballard Links Extension Project in Seattle.



**Ulf Georg Gwildis** ■ CDM Smith, Bellevue, Washington, U.S.A.

Ulf Georg Gwildis is a licensed engineering geologist and tunneling consultant with CDM Smith's Infrastructure and Programs Group and located in the Seattle area. His 25+ years of professional experience include geotechnical investigations, planning, design, and consulting during the construction phase of tunnels and shafts for major water conveyance and transportation infrastructure projects, mostly in North America, Europe, and the Middle East.

Mr. Gwildis has authored numerous technical papers and presented at national and international conferences on the geotechnical aspects of mechanized tunneling, shaft design, and special underground construction technology such as ground freezing.

**When: Wednesday, 18<sup>th</sup> of November 2020**

**Time:** 12:30 PM GMT (05:30 AM Los Angeles, 08:30 AM Ottawa, 09:30 AM São Paulo, 13:30 PM London, 14:30 PM Berlin, 16:00 PM Tehran, 20:30 PM Beijing, 23:30 PM Canberra)

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