



COLORADO SCHOOL OF MINES

# underground

## LUNCH & LEARN

### RAPIDLY EMERGING MASS TRANSPORTATION TECHNOLOGIES

January 22nd, 12-1PM

BERTHOUD HALL 243 – **NEW LOCATION**

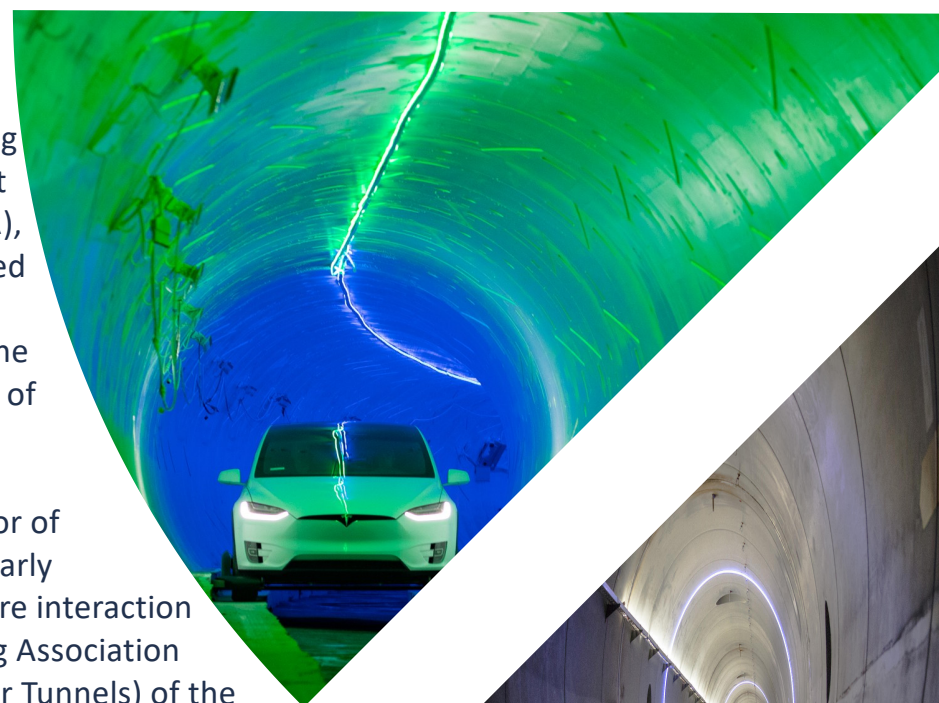
In this presentation, we will discuss emerging transportation technologies of the future and how tunneling is instrumental in making them a reality. Mike Wongkaew, HNTB National Tunnel Practice Lead – Northwest, will review the current state of the practice, recent accomplishments and future directions of innovative companies such as Virgin Hyperloop One and The Boring Company.



**Mike Wongkaew, PhD, PE, SE, PMP**, is an Associate Vice President and National Tunnel Practice Lead – Northwest for HNTB Corporation. He has 20 years of extensive hands-on experience in the design and construction of tunnels and underground structures. His professional accomplishments included designing the first single-pass steel fiber reinforced precast

concrete tunnel lining in the US (East Side CSO Tunnel Project, Portland, OR), providing structural and tunnel design oversight for the world's largest bored tunnel project (SR 99 Bored Tunnel Project, Seattle, WA) and leading the tunnel conceptual engineering for the Los Angeles to Palmdale section of the California High Speed Rail Project which included more than 22 route miles of tunnels through challenging geology and densely developed region.

Mike received a bachelor degree with distinction, master degree, and doctor of philosophy degree in civil engineering from Purdue University. He has regularly published in the areas of underground engineering and seismic soil-structure interaction analysis and design. He is the USA representative to International Tunneling Association (ITA) Working Group No. 23 (Shafts), a session chair (Water and Wastewater Tunnels) of the UCA of SME's North American Tunneling 2020 Conference, and a session co-chair (Underground Construction) for the 2020 ASCE Geo-Congress. 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.

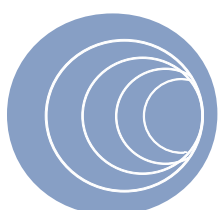


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**LUNCH WILL BE PROVIDED**

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FOR UNDERGROUND TRANSPORTATION INFRASTRUCTURE