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**March 2021 CGS-SOS Webinar**  
**Some Problems from Shoring and Piling Practice**  
**Cases and Explanations**  
**By: Ahmed Al Mufty, Ph.D., P.ENG., M.ISSMGE**

**Date:** Thursday March 25, 2021  
**Time:** 12 – 1:30 PM  
**Registration Link:** Registration will open on March 8, 2021

**Abstract:**

The objective of this presentation is to show the attendees real problems from different aspects of shoring with embedded retaining walls and bored piles practice. There will be many cases and the presentation will not concentrate on one subject which will make it interesting and fun. Each case will be demonstrated by a picture, sketch or a video accompanied with explanation, comments, recommended solution, and suggested precautions for similar situations. The cases will cover different issues such as pile testing setups, test pile caps, defected shoring piles, deviations in shoring walls, problems in concrete strength, damages to pile heads or pile reinforcement, design problems, dewatering problems, artesian flow to excavations, diaphragm walls, trench stability, safety problems, etc.

All slides represent problems the presenter faced in his practical life and will show how these problems were approached and whether they were solved or not. It is not a design lecture, it is not an analysis of a case by a certain method, it is not a usual lecture. It will take the attendees to real geotechnical engineering everyday problems.

**Speaker:**

**Ahmed Al Mufty, PhD, P.ENG, MISSMGE**

*Geomechanics Specialist at Rocscience Inc, Toronto, Canada*



Completed his studies in the department of civil engineering in the university of Baghdad. He earned his B.Sc. in 1985. He continued his postgraduate study in geotechnical engineering and got his M.Sc. in 1990 and his Ph.D. in 1997. Dr. Mufty started his practical life with geotechnical engineering early after graduation. He started lecturing 1992 and became a faculty member in the department of civil engineering of the university of Baghdad for the period 1995-2004. In 2004, he moved to UAE and worked in pile design and construction till 2019 when he moved to Rocscience Inc. in Toronto joining the geotechnical software team as geomechanics specialist.

Dr. Mufty has 35 years of practical and theoretical experience in civil and geotechnical engineering including, slope stability, site investigation, laboratory testing, foundation design, road embankments, earth dams, shoring for excavations and deep foundations. He has remarkable experience in engineering characteristics of soft clays and gypseous soils.

During the years 2004-2019, Dr. Mufty worked as the technical manger of HSSG and later APCC, two of the largest foundation companies in UAE. His design works in shoring of deep excavations and pile foundations included more than 100 iconic projects. He worked in projects in Iraq, UAE, Qatar, KSA, Oman, India, and Canada. Academically, Dr. Mufty lectured several courses in soil mechanics, numerical analysis, and geotechnical engineering for undergraduate and postgraduate students. He supervised 11 M.Sc. and Ph.D. Students and authored/co-authored more than 20 articles and published one book in Arabic in numerical methods and participated in many conferences and seminars.