

SEPTEMBER 9, 2020

Wednesday, September 9, 2020

4:00 PM (1.0 PDH)

Sonic Dam Tomography Testing by Climber



3-lb Impulse Hammer impacts on downstream face for testing on rough surfaces and thick dams



SASW Testing on a Concrete Dam:

- ▶ Investigating interior degradation/cracking damage due to freeze/thaw cycles
- ▶ Cracking due to alkali-silica or alkali-aggregate reaction (ASR or AAR)

WORKSHOP

4:00 PM (1.0 PDH)

Title : **Non-Destructive Evaluation of Concrete Dams**

Speaker : [Mr. Larry D. Olson, PE](#) w/ [Olson Engineering, Inc.](#)

Larry D. Olson, P.E., is nationally and internationally known for his expertise in nondestructive evaluation (NDE) and performance monitoring of civil infrastructure including dams, bridges, buildings,

foundations, pavements, tunnels, etc. He is a member or past member of several committees including: USSD's Dam Monitoring Committee, ASCE's Geophysics Committee, Transportation Research Board (TRB) Committee AFF60 Tunnels, AFF40 on Field Testing and Nondestructive Evaluation of Transportation Structures and its Nondestructive Evaluation (NDE) subcommittee as well as the Earth Exploration Committee AFP20 and its Geophysical subcommittee. He has been an instructor in the American Society of Civil Engineers seminar on Structural Condition Assessment of Existing Structure since 1997 and in 2009 developed a new ASCE seminar Bridge Condition Assessment and Performance Monitoring. He was the primary instructor in an Engineering Education of Australia seminar series on Nondestructive Evaluation of Concrete, Asphalt and Wood in Sydney and Melbourne in 2010 and for the two ASCE seminars in Brisbane and Sydney in 2014 and again in 2015 and 2017. He is a member of the American Concrete Institute and served as President of the National Capital Chapter of ACI in 2015 as well as being active in Committees 228 Nondestructive Testing, 309 Consolidation and 342 Bridge Evaluation and a technical affiliate of the Association of Drilled Shaft Contractors. Mr. Olson is past Chairman of the Evaluation Committee of the International Concrete Repair Institute (2002-2009) as well as a fellow of ICRI and a past ICRI board member. He is a member of the American Council of Engineering Companies International and Transportation Committees as well as ASCE's Geophysics Committee. He is a long-time member of IADSC and was involved in the FHWA/IADSC sponsored integrity testing of drilled shafts for QA purposes at the CA, TX and MA sites in the late 1980's to early 1990's. He has 40 years of consulting experience in structural condition assessment and monitoring, materials, pavement, geotechnical, geophysical, and vibration engineering. He holds BS Civil and MS (Geotechnical) Engineering degrees from the Civil Architectural and Environmental Engineering Department of the University of Texas at Austin which honored him as a distinguished alumnus in 2006. Olson Engineering has its main office in Wheat Ridge CO (metro Denver) with a branch office in Rockville MD (metro Washington, DC). Mr. Olson founded Olson Instruments, Inc. in 1993 to manufacture NDE and seismic geophysical instruments.

ABSTRACT : The Webinar will be presented by Larry D. Olson, PE, Chief Engineer at Olson Engineering with offices in Wheat Ridge, Colorado and Rockville, Maryland. Mr. Olson is the president and owner of Olson Engineering, Inc. and Olson Instruments, Inc. and has 40 years of consulting experience in structural condition assessment, geotechnical, pavement, materials, geophysical and vibration engineering.