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## GEO-INSTITUTE CHICAGO – APRIL DINNER MEETING

### CASE HISTORY: SEISMIC ANALYSIS AND UPGRADE DESIGN OF A COAL ASH POND

PLACE:	Pazzo's at 311 - 311 S Wacker Dr, Chicago, IL 60606 ((312) 913-1600) (Parking is located South of the 311 building - \$13.00 after 5:00 pm)		
DATE:	<b>Tuesday, April 11, 2017</b> Cocktails 5:15 pm, Dinner 6:15 pm, Presentation follow dinner		
SPEAKER:	Bill Walton, P.E., S.E., F.ASCE, D.GE /Senior Vice President / GEI Consultants		
COST:	\$45 General (Contractor, Consultant with reservation) \$35 Education/Government Employees (with reservation) \$25 Students (with reservation) \$50 At the door OR After RSVP date (Make checks payable to "ASCE Geotechnical Group")		
RSVP:	Monday, April 10, 2017 at 12:00 pm (CST) Email: <a href="mailto:asceilgeotech@gmail.com">asceilgeotech@gmail.com</a> Phone: Ati Fathi 312.985.0364 Mike Bronson 847.777.0344		

**Program Summary**

**Abstract** - As part of a comprehensive project to close the coal fired Colbert Fossil Plant (COF) in Tusculumbia, Alabama, the Tennessee Valley Authority (TVA) initiated a project to improve the seismic stability of a 70-acre sluiced ash pond next to Cane Creek, a tributary to the Tennessee River. Seismic improvements comprised a downstream stability berm and soil/cement shear walls built using deep mix methods (DMM) along the 3,100 feet (ft) perimeter toe of 40-ft high compacted clay dikes that retained a sluiced ash in an active pond from discharging into Cane Creek during or after an 2,500 year return period design earthquake

Mr. Walton is Senior Principal, Senior Vice President and Group Practice Leader for GEI Consultants, Inc. in Chicago, Illinois. Mr. Walton is member of the Board of Directors for GEI and on the Board of the Structural Engineers Association of Illinois. GEI is a nationally recognized 800-person with headquarters near Boston, Massachusetts. He is a licensed civil and structural engineer in 23 US states, Territories with more than 37 years of experience in the design and construction of tailings dams, power dams, shafts, tunnels, walls, landfills, power plants and tall building foundations. He has worked in North and South America, Europe, Asia and Africa.

He was awarded in 2010 the Illinois Civil Engineer of the year by the Illinois ASCE section. Mr. Walton was an elected Fellow and D.GE of the ASCE and was former Chairman of the Illinois Geotechnical Group. He was elected to the Chicago Rise Building Committee for his work on updating the 2000 and 2010 Chicago Building Codes. He was awarded BSCE from WPI with High Distinction and went onto Cornell University to get his MS in Agricultural Engineering.

He has worked on dams and earth structures for the past 37 years. He served as engineer of record for 215-ft high Harriman Dam static and seismic repairs in Vermont and the 140-ft Old Quarry Hollow Dam in Missouri. Since 1993, Mr. Walton is an active FERC approved Independent Consultant for the inspection, analysis and design of water power earth and concrete dams and steel penstocks. He has worked more than 100 hydroelectric power dams, including expansions to Tarbela Dam in Pakistan, Fortuna Dam in Panama, and Zungaru Dam in Nigeria.

Mr. Walton lead root cause failure analyses for the 5.4 million yard fly ash released from an ash pond at the TVA Kingston Fossil Plant in Tennessee and reported his findings to the U.S. Congress; the 1-million cubic yard Clark Landfill failure into Lake Michigan at the LTV Steel Mill site in Indiana; the Boston Big-Dig; I-93 tunnel leakage and I-90 tunnel ceiling collapse for the Massachusetts Turnpike Authority and FHWA; the Silver Lake Dam breach near Marquette, Michigan; the Infinity Tower excavation collapse in Dubai; and the foundation study of the "Big-Blue" crane collapse at Brewers Stadium in Milwaukee, Wisconsin.