

Design and Construction of Emergency Repairs to the Laguna Beach Interceptor Tunnel

David Jurich, Hatch Mott MacDonald

WEDNESDAY JAN 9TH at NOON in BB 125
- lunch provided -

The South Coast Water District Beach Interceptor tunnel was excavated from the coastal bluffs in 1954 and contains a 24 inch diameter gravity pipeline critical to the Laguna Beach, California sewer system. Timber supports in the 6 ft high by 6 ft wide, 10,500 ft long tunnel are deteriorated and a tunnel collapse would threaten the highly sensitive and protected coastal environment. This case history includes a description of the geological setting and risks, design and construction of emergency repairs to the tunnel, and planning for the full tunnel rehabilitation and pipeline replacement.



David Jurich is a professional engineer with more than 30 years of experience in the investigation, design, construction, and repair of underground structures for water supply, hydropower, transportation, and wastewater conveyance projects. His work has taken him to several parts of the world and very challenging urban, environmental, and geological settings. He earned B.S. and M.E. degrees at the Colorado School of Mines, and is a member of the Society of Mining Engineers and the American Society of Civil Engineers. Mr. Jurich, Vice President with Hatch Mott MacDonald, is based in Denver and in addition to providing senior technical review of underground hydropower and water conveyance projects, is currently involved in the design of two 7-kilometer long pipeline tunnels in Northern British Columbia.