

4th ISSMGE Bramlette McClelland Lecture

Tuesday 12th September 6pm

Royal Geographical Society, 1 Kensington Gore, Kensington, London SW7 2AR

Understanding the Full Potential of an Integrated Geoscience Study

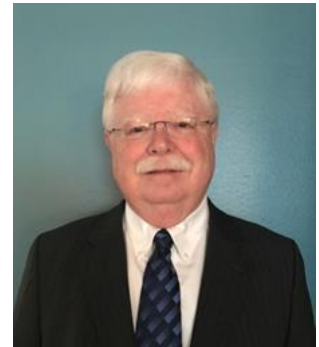
by Alan Young

Synopsis

The lecture will describe innovative changes in geophysical and geotechnical equipment and advances in marine technology that allows the offshore industry to conduct integrated geoscience studies. This holistic approach allows an interdisciplinary team to develop the five components of a 4D Geo-Site Model. The model defines the three-dimensional building blocks of subsurface geologic structure, geotechnical conditions, and geo-constraints. Age dating is critical for defining the fourth dimension (time) since it provides the framework for understanding the geological history and the frequency of geological processes. Correlating sequence stratigraphy, geotechnical soil properties and horizon age control is a model benefit that allows extrapolation of spatial subsurface conditions. The capability to assess site favourability for various installation and operational criteria is another benefit. Regulations should not be too prescriptive and allow experienced engineers and geologists to plan the scope of site investigations. The paper indicates that if we change our way of collectively studying the seafloor, an integrated study will reduce uncertainty in the overall design process.

Biography

Alan G. Young, the Fourth ISSMGE McClelland Lecturer, has been a major contributor to the advancement of offshore geotechnical engineering for over 45 years. Inspired by reading Bram McClelland's papers, he joined McClelland Engineers Inc. in 1971 as a project engineer. Since then his contributions have been worldwide, encompassing a wide range of technical, operational and business applications. His areas of expertise include: offshore geotechnical analyses and geohazard assessment, marine foundation analyses of seafloor and subsurface installations and mobile jack-up rigs, specialised laboratory testing and strength interpretation for different sampling and in situ testing methods, and planning and managing marine operations involving geophysical and geotechnical investigations.



The Lecture forms part of the Society for Underwater Technology and Offshore Site Investigation and Geotechnics (SUT-OSIG) Conference 2017 with the theme "Smarter Solutions for Offshore Developments".

For further details please visit <http://www.sutconnects.com/an-introduction-to-alan-g-young-the-fourth-issmge-mcclelland-lecturer/>

This event is free but registration is essential; please email events@sut.org.

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