

### Experience Summary

A Geotechnical Consultant with over 40 years of worldwide professional engineering experience both onshore and offshore, serving the oil and gas industry, power industry, petrochemical industry, and both the private and government sectors.

Dr. Audibert is a recognized authority in the area of offshore geotechnical engineering, including foundation design for fixed and mobile platforms, gravity base structures, and floating platforms.

### Credentials

- BS/MSc, Engineering, Ecole Nationale Supérieure d'Arts et Métiers, Paris, 1968
- Ph.D., Civil Engineering, Duke University, 1972

### Professional Experience

***Sr. Geotechnical Engineering Consultant*** – Quest Geo-Technics, Kerrville, TX

***Sr. Geotechnical Consultant*** – ExxonMobil (EMDC)

- Shallow and deep water developments offshore and onshore the Gulf of Mexico, West and East Africa, North Sea, Canadian and US Arctic, Eastern Canada, Australia, Indonesia, South Korea, Malaysia, Vietnam, Russia, and the Black Sea.
- The projects included green and brown fields, subsea completions to new fixed platforms (seabed founded to floaters), concrete GBS to semis, pipelines, flowlines and umbilicals, FLETs, PLETs, SHOs, anchor piles, suction caissons, hybrid foundations, site investigations, geotechnical and geophysical surveys, fabrication yard assessment, tank farm foundation assessment, pier and quay wall assessment and remediation, and various R&D projects.

### ***Independent Consultant***

Provided consulting services as an independent consultant on a number of projects, including:

- Representing major oil company as Company Man and providing oversight of a deepwater site investigation offshore Angola, West Africa and offshore the Falkland Islands, South Atlantic.

- Representing major energy company as Company Man and providing oversight of geotechnical investigation of pipeline routes for LNG re-gasification facility, offshore US east coast.
- Embedded in Project Teams of major oil company and working on a number of projects including:
  - Geotechnical aspects of gravity base structures (GBS) for the Arctic and offshore Eastern Canada,
  - Design recommendations for pile foundations in calcareous soils offshore Australia,
  - Major pipelines and LNG facilities in South East Asia,
  - Stability assessment and siting of fixed and mobile platforms in the Black Sea, offshore Indonesia and in mudslide prone areas offshore the Mississippi delta,
  - Design and installation of suction caissons offshore West Africa and the Gulf of Mexico, and
  - Major oil-sand mining projects in northern central Canada.
  - Review of license applications for the siting of LNG re-gasification plants in Maine, New Jersey-New York, Pennsylvania, Massachusetts, Mexico and Peru,
- Geo-hazards assessments and routing studies for several major cross-country pipelines in Peru, Sakhalin Island, Java, Papua New Guinea and offshore Western Australia,
- Recommendations for innovative anchoring schemes, including torpedo piles and jettied anchors,
- Special laboratory testing for five nuclear power plants in the USA,
- Development of Guidance Document on Site Investigation Techniques and Design of Foundations for deepwater developments offshore West Africa, for a consortium of operators,
- Lecturer on *Geotechnical Site Investigation Tools and Techniques* as part of the annual course on Design of Fixed Offshore Platforms, University of Texas at Austin since 1998, and Lecturer on *Offshore Geotechnical Engineering* in Houston, Texas, Wallingford, UK, Leidschendam, NL and Singapore, as part of the Fugro Academy lecture series.

**Vice President / Manager of Engineering** –  
Fugro- McClelland Marine Geosciences, Houston,  
TX

- Responsible for the overall quality and schedule control for all the aspects of a wide range of offshore geotechnical projects.
- Responsibilities included the overall supervision, coordination of some 40 engineers, and the technical direction and management of numerous offshore geotechnical projects.
- Ensured that all tasks were carried out according to the client's specifications and that reporting deadlines were met in accordance with the contracts.
- Provided overall guidance and management of all field and office project teams, including mobilization, field surveys, laboratory testing, static foundation analysis and design, and earthquake engineering.
- Offshore projects for which he was responsible have included foundation design, in situ testing, tool development, platform certification, pipeline routing and engineering, feasibility studies of deepwater platform concepts (guyed and buoyant towers, TLPs, SPARs, FPS and FPSOs), pile load tests, and research and development studies.
- Directed and participated in several R&D, including load tests on large instrumented driven piles and drilled and grouted piles, suction caissons, SEPLAs and torpedo piles.
- Extensive onshore project experience includes numerous geotechnical engineering studies for nuclear and fossil fired power plants, LNG terminals and re-gasification plants, dams, bridges, outfalls and intake pipes, earth and water retaining structures, lignite mines and petroleum product refining facilities.
- Directed waste management projects, ranging from site investigations, remedial designs, remedial actions, and design of municipal and hazardous waste landfills.
- Dr. Audibert was also the main investigator in studies of the State-of-Practice and State-of-the-Art of the design and analysis of foundations for offshore pile-supported and gravity structures.
- Directed State-of-the-Art review on pile group foundations and on pile foundations in calcareous soils.

- Participated in the direction of a technology development project to create new analysis procedures for pile-supported structures subjected to intense wave loadings and strong earthquake ground motions
- Lead investigator of the effects of elevated temperatures on the behavior of deepwater clays and has directed fundamental research on torpedo piles and effects of methane gas on soil behavior.

### **Professional Affiliations**

- American Society of Civil Engineers (ASCE)
- Earthquake Engineering Research Institute (EERI)
- American Society for Testing and Materials (ASTM)
- National and Texas Societies of Civil Engineers (NSPE & TSPE)
- International Society of Soil Mechanics and Foundation Engineers (ISSMFE)
- American Petroleum Institute (API)
- Société des Ingénieurs Arts et Métiers, and Marine Technology Society

### **Publications, Awards and Committee Memberships**

- Author or co-author of over 80 technical papers. Received the Special Service Award from ASTM for organization of 2nd International Symposium on the Pressuremeter and its Marine Applications.
- In 1980, was awarded the J. James Croes Medal by the American Society of Civil Engineers for a technical paper on the earthquake response of offshore platforms.
- In 1979, received the Collingwood Prize from ASCE for research on soil-pipeline interaction. He applied and extended the results of his research on soil-pipeline interaction to offshore pipelines subjected to seafloor instabilities and earthquake strong motions or faulting.
- Other awards include an ASTM Special Service Award (1987), Fulbright Fellow (1968-1969) and Who's Who in Engineering (AAES) and Who's Who in Technology Today and Men of Achievement.