

Consultant/Oceanographer

Since graduating with a B.Sc. in Geology and Oceanography (1981) and M.Sc. in Oceanography (1982), Jan has gained over 35 years of experience in commercial oceanography, most recently as Managing Director of BMT Energy. Prior to this he was Metocean Global Business Line Manager at Fugro where he was responsible for overseeing all meteorological, oceanographic and environmental activities. Jan's experience includes director level appointments in Holland, Malaysia, Singapore, the United Kingdom, and the United States, with strategic and business planning, R&D, management, business development and operational responsibilities. His oceanographic experience has seen him undertake studies in the North and South Atlantic, South China Sea, Indian Ocean, Mediterranean Sea, Pacific Ocean, Gulf of Mexico and Caribbean. This has included both field measurement and monitoring system campaigns and the detailed analysis and interpretation of data.

**Education**

*MSc, Oceanography, University of Wales, 1982*

*BSc (Hons), Geology with Oceanography, University of Wales, 1981*

**Community**

*Fellow and Honorary Secretary, Society for Underwater Technology (SUT), Americas Branch*

*Chairman, SUT Group on Environmental Forces*

*Treasurer and board member, Gulf of Mexico Coastal Ocean Observing System*

**CAPABILITIES**

- ❖ **Strategic Planning:** Advisor and Subject Matter Expert to boards of directors and investors on industry trends and strategies to build businesses and achieve operational efficiencies with organic growth, M&A, strategic partnerships and consolidation initiatives in the marine environmental, oceanographic and meteorological industries.
- ❖ **Market Assessment:** Global knowledge of current industry trends and markets facilitating accurate assessment of markets for future products.
- ❖ **Innovation:** Awareness of current technology limitations and gaps in satisfying client requirements coupled with comprehensive technical awareness facilitates rapid prototyping, assessment of stakeholder feedback and acceptance of new innovations.
- ❖ **Product Development:** Extensive knowledge of the industry landscape, future and current product opportunities, allowing critical assessment of future incremental and disruptive solutions and applicability to industry customers, and regulatory requirements.
- ❖ **Financial and Commercial Analysis:** Strong awareness and understanding of financial analysis at a business and product service level.
- ❖ **Business Representation:** Comprehensive network of contacts in oil and gas operator and contractor, governmental, and academic research markets to facilitate rapid penetration.
- ❖ **Scope of Work Development:** Ability to develop marine environmental, meteorological and oceanographic scopes of work to ensure client objectives are met.
- ❖ **Proposal Preparation and Review:** Addressing regulatory, work scope development and/or analysis, strategic alignment, risking, and resource matching.
- ❖ **Client Representation:** Strong emphasis of safety, commercial accountability and quality to ensure clients requirements are exceeded. Strong understanding of client requirements and technical review of metocean reporting.
- ❖ **Program/Project Management:** Comprehensive project/program management capability with focus on safety, data integrity, and data availability for data acquisition, systems, and desktop studies.

- ❖ **Technical and operational support:** Fully conversant of key metocean parameters, data sources and analytical techniques, coupled with extensive experience of instrumentation and offshore operations allows effective support of office and field-based operations.

#### **ACHIEVEMENTS**

- ❖ Leader for the transformation of six subsidiary international businesses into market facing global business lines, including development of appropriate governance, strategic development, R&D, marketing, P&L, cash management, HSE & QA, and operational structures.
- ❖ With Fugro, optimized and coordinated the management of seven global Environmental and Metocean Business Lines, across nine regional operational subsidiary businesses.
- ❖ Managed global environmental and metocean R&D budgets. Championed commercialization of two major products for integrated marine management systems and state of the art data delivery via web portal.
- ❖ Built fledgling Metocean Business in Gulf of Mexico, to position of market dominance in the Gulf of Mexico and South America with 1200% growth in sales over 10 years, while maintaining EBIT in-line with group expectations.
- ❖ Built nascent Metocean Business in Singapore, to position of market dominance in SE Asia through organic growth, Joint Venture and M&A activities.
- ❖ Project managed the development of innovative web-based solutions for geospatial real-time metocean measurements.
- ❖ Project director for the collaborative development of the first commercially available airborne Remote Ocean Current Imaging System (ROCIS).
- ❖ Developed the first ROV-based real-time current profile monitoring system.
- ❖ Designed, developed and successfully implemented a real-time current profile monitoring system for seismic survey vessels. This technology was sold to the industry with strong efficiency impact on maritime data collection.
- ❖ Leader in implemented ISO/HSE certifications for multiple entities.

#### **EXPERIENCE**

##### **2016 – 2017: BMT GROUP, ENERGY PARTNERSHIP, MANAGING DIRECTOR**

- ❖ **Overall responsibility for the six Energy Companies that made up the Energy Division of BMT, including Governance, Strategic Development, Research and Development, Marketing, P&L, cash management, and operations.**
- ❖ **Restructuring of operating companies into global business line entities.**

##### **2013 - 2015: FUGRO Inc., METOCEAN GLOBAL BUSINESS LINE MANAGER**

- ❖ **Overall responsibility for the six Energy Companies that made up the Metocean Business Line of Fugro, including, Strategic Development, Selection, Prioritization of Research and Development budgets.**

##### **2005 - 2013: FUGRO GLOBAL ENVIRONMENTAL & OCEAN SCIENCES, PRESIDENT**

- ❖ **P&L and operational responsibility for all Fugro metocean activities in the Americas.**

##### **1998 - 2005: FUGRO GLOBAL ENVIRONMENTAL & OCEAN SCIENCES, REGIONAL DIRECTOR.**

- ❖ **Responsible for all sales, marketing and business activities of GEOS in the Americas.**

##### **1995 - 1997: GLOBAL ENVIRONMENTAL & OCEAN SCIENCES PTE LTD, SE ASIA REGIONAL DIRECTOR.**

- ❖ **Responsible for all business activities of GEOS in SE Asia and Australasia.**

**1993 - 1995: WIMPEY ENVIRONMENTAL INTERNATIONAL SINGAPORE PTE LTD, SE ASIA REGIONAL MANAGER.**

- ❖ Responsible for all business activities in Wimpey Environmental in SE Asia. Also responsible for project management, tendering and oceanographic engineering projects worldwide.

**1992-1993: WIMPEY ENVIRONMENTAL INTERNATIONAL SINGAPORE PTE LTD, OPERATIONS MANAGER.**

- ❖ Responsible for all SE Asia operations including project management of oceanographic, environmental and forecasting contracts.

**1990-1992: WIMPEY ENVIRONMENTAL LIMITED, OCEAN ENGINEERING AND SYSTEMS MANAGER.**

- ❖ Responsible for project management of oceanographic engineering and environmental systems contracts.
- ❖ Key activities included onsite management for a variety of oceanographic studies undertaken in the North Sea, English Channel, Atlantic Ocean and Mediterranean Sea.

**1987 - 1990: SPACE TECHNOLOGY SYSTEMS LIMITED SURVEY PROJECT MANAGER.**

- ❖ Responsible for overall project management of multidisciplinary projects and also for tendering, pre-survey planning, site survey work and subsequent analysis and reporting of results.

**1982 - 1987: HUNTING SURVEYS LTD**

- ❖ **1985 - 1987: Oceanographic Scientist at the British National Space Centre, NRSC, Farnborough. Responsible for management and execution of developmental remote sensing applications projects undertaken jointly with industry, marketing and promotion of marine remote sensing both nationally and internationally and consultant to the NRSC's clients.**
- ❖ **1983 - 1985: Regional Oceanographic Project Manager, Singapore. Responsible for Metocean contracts in South East Asia and Middle East.**
- ❖ **1982 - 1983: Oceanographer on a variety of coast and offshore Metocean Projects including field studies data analysis and reporting.**

**PUBLICATIONS**

van Smirren J.R., 1982, Short Term changes in Sedimentological and Hydrographic Characteristics over a Sandy Intertidal Zone, The Wash, UK, Geo-Marine Letters, Vol.2, 55-60.

van Smirren J.R., 1986, Summary and Recommendations of the findings of the Columbus Ocean Panel, BNSC Columbus Ocean Panel Final Report.

van Smirren J.R., 1986, Improved Safety and Efficiency of Offshore Operations, ESA, Proceedings of Remote Sensing User Symposium, Friedrichshafen, FGR.

van Smirren J.R., 1986, Applications of Airborne and Satellite Remote Sensing in Bathymetric and Hydrographic Surveying, 1986, Proceedings of NBST-TCD-UCD Remote Sensing Seminar.

van Smirren J. R., 1987, Satellite Remote Sensing as an Aid to Nautical Charting, The Hydrographic Society, Remote Sensing Seminar.

van Smirren J.R., 1989, Mapping tidal currents using high resolution optical remote sensing techniques, Int. J. Remote Sensing, 1989, Vol. 10, 937-938.

van Smirren J.R., 1994, Applications of Acoustic Doppler Current Profilers in the Offshore Oil Industry, IEEE Singapore Section Asia Pacific '94 Oceans Seminar.

Rayner, R.F., Flynn, J. E., and van Smirren, J.R., 1994, The use of Ocean Surface Current Radar in Singapore Coastal Waters, Proceedings of the 9th Congress of the Asia Pacific Division on the International Association for Hydraulic Research Symposium.

- van Smirren J.R., 1997, Developments in Deep Water Oceanographic Measurements, 1997, Oceanology International 97, Pacific Rim, conference Proceedings Volume 1.
- van Smirren J.R., 1997, Developments in Oceanographic Measurements, October 1997, Petromin Magazine, AP Energy Publications Pte Ltd.
- van Smirren J.R., Romeo J. and Vogel M., 1999, System Development for Profiling Deeper Waters in Support of the Oil and Gas Industry, MTS/IEEE Sixth Working Conference on Current Measurement, San Diego, CA.
- van Smirren J.R., Romeo J. and Vogel M., 1999, Developments in Acoustic Doppler Current Profiling and its Technical Application in Deepwater Drilling, Offshore Technology Conference, Houston, TX.
- van Smirren J.R., 2001, Innovation in the application of ADCPs in the oil and gas industry, ADCPs in Action, San Diego, CA.
- van Smirren J.R., Nicholas C.V., Primrose C.L., and Mullison J. 2002, A Surface Current Measurement System to Support DP Operations, Dynamic Positioning Conference Houston, TX.
- van Smirren J.R., 2003, HADCP applications in the oil and gas industry, ADCPs in Action, San Diego, CA.
- Anderson S.P., Cooper C. K., Schaudt K.J. and van Smirren J.R., 2003, EddyNet: A Measurement Program for Collecting Real-Time Current Profiles from the Gulf of Mexico, MTS/IEEE Oceans 2003, San Diego, CA.
- van Smirren J.R., 2005, The acquisition of real time full water column current profiles in depths exceeding 6,000ft using ADCPs, ADCPs in Action, San Diego, CA.
- van Smirren J.R., Brown, A, 2005, The Acquisition Of Real Time Full Water Column Current Profiles In Depths Exceeding 6,000ft Using ADCPs, MTS/IEEE Oceans 2005, Washington D.C.
- van Smirren J.R., Nicholas, C, 2006, The Development of New & Existing Cabling Techniques to Obtain Realtime Full Water Column Current Measurements., MTS/IEEE Oceans 2006, Boston, MA.
- van Smirren J.R., 2005, The Gulf of Mexico Coastal Ocean Observing System, Offshore Communications 2006, Houston, TX.
- van Smirren J.R., 2009, GCOOS and the Oil and Gas Industry: An Opportunity for an IOOS-Industry Partnership., MTS/IEEE Oceans 2009, Biloxi, MS.
- van Smirren J.R., Smith R.I., Guan X., 2011, Developing Technologies for Regional Ocean Observing Systems ", Proc. SPIE 8029, 80291A (2011); doi:10.1117/12.884234
- van Smirren J.R., 2012, Providing Operational Buoy Based Metocean Measurements to the Oil and Gas Industry in the Gulf of Mexico, MTS/ONR Buoy Workshop 2012, Victoria BC.
- Anderson S. P., Zuckerman S., Fan S, van Smirren J., 2013, Airborne Optical Remote Sensing of Ocean Currents OCEANS '13 MTS/IEEE San Diego, CA September 23-26
- Anderson S. P., Zuckerman S., van Smirren J., Smith R., 2015, Airborne Ocean Surface Current Measurements for Offshore Applications, Offshore Technology Conference May 4-7 2105, Houston, Texas

**PROFESSIONAL AFFILIATIONS**

- Director, Alliance for Coastal Technology
- Treasurer – IOOS, GCOOS Regional Association
- Executive Board Member – IOOS, GCOOS Regional Association
- Fellow of the Society for Underwater Technology
- Honorary Secretary SUT Houston Branch
- Chairman SUT Houston Branch, Group on Environmental forces
- Member Oceanography Society
- Member Marine Technology Society
- Member Society for Underwater Technology