



**Exponent**<sup>®</sup>  
Engineering & Scientific Consulting

## Michael Banning

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### Professional Profile

Mr. Banning is a Chartered Marine Engineer with 17 years' experience working within the marine industry. His sea-going career spanned both the Royal Navy and Merchant fleets, having sailed on a variety of vessels including Warships, Very Large Crude Carriers, Product Tankers, General Cargo vessels and Ro-Ro ferries.

Since coming ashore Mr. Banning has worked for a fuel additive manufacturer, where he held the position of Marine Technical Service Manager and specialised in the application of residual fuels both onboard ships and ashore in diesel electric power plants, with a focus on fuel stability and risk mitigation.

Over the last six years Mr. Banning has advanced his specialist knowledge of marine fuels, becoming an active member of ISO TC28/SC4/WG6 Classification and Specification of Marine Fuels amongst other technical committees. Mr. Banning has assisted the industry with the aim of improving overall fuel quality to mitigate risks onboard, and was involved in the 2017 revision of ISO 8217 and PAS 23263 in the run up to 2020. He has continued his committee work and has a renewed focus on 2030 and 2050 CO2 reduction targets, having been involved in setting up the framework for the inclusion of Biofuels and Alternative Fuels onboard marine vessels.

Mr. Banning's experience includes fuel analysis, product formulation and development, failure analysis, incident investigation, standardisation and specification, energy efficiency management, project management and consultancy.

### Academic Credentials & Professional Honors

M.Sc., Engineering and Management, University of Portsmouth, UK, 2017

### Licenses and Certifications

Chartered Engineer – Engineering Standards Council

Chartered Marine Engineer – Institute of Marine Engineering, Science and Technology

MCA OOW Engineer III/3 Unlimited (Motor)

Dangerous Cargo Endorsements for Petroleum and Liquefied Gases

## Prior Experience

Technical Service Manager – Marine, Innospec, 2013 – 2021

Marine Engineering Officer, BP Maritime Services, 2010 – 2013

Marine Engineering Officer, Foreland Shipping, 2010

Marine Engineering Officer, Bibby International Services (IOM) Ltd, 2007 – 2009

Marine Engineering Artificer, Royal Navy, 2004 – 2006

## Professional Affiliations

British Standards Institute (BSI) – Member of Technical Committee PTI/002 Liquid Fuels

International Organization for Standardization – Member of Technical Committee TC28/SC4/WG6 – Classification and Specification of Marine Fuels

Institute of Marine Engineering, Science and Technology (IMarEST) – Member

IMarEST Special Interest Group – Fuels and Emissions

International Bunker Industry Association (IBIA) – Member

IBIA Future Fuels Working Group - Member

## Publications

Banning, M. (2015). Action Points. Bunkerspot, 72-73.

Banning, M. (2017). Complete Solution. Bunkerspot, 71-73.

Banning, M. (2019). Additives Fuels and Ships, a case study. CIMAC Congress. Vancouver.

Banning, M. (2019). Attention to Detail. Bunkerspot, 48-50.

Banning, M., & Green, M. (2014). Distillates will need as much care as heavy fuel . Marine Propulsion and Auxiliary Machinery, 180.

Banning, M., & Green, M. (2016). Double Take. Bunkerspot, 83-87.

Banning, M., Barker, J., & Mulqueen, S. (2016). The Nature and Cause of Internal Diesel Injector Deposits and the Effectiveness of Fuel Additives. CIMAC Congress. Helsinki.

Banning, M., Makar, N., Dyson, C., Valdenaire, D., & Gelder, A. (2019, July 16). 2020 Vision (Option 1, 2 and 3). Retrieved from North of England P&I Club: <https://www.nepia.com/latest/all-publications/2020-sulphur-cap/>

Banning, M., Smith, M., & Bee, S. (2020). The Changing Face of Fuels. North Signals issue 120, 10-11.

## Presentations

Banning, M. (2017). The impact of changing regulation on marine fuel quality and the role and effectiveness of fuel additives. International Association for Stability and Handling Use of Liquid Fuels.

Rome.

Banning, M. (2019). The impact of changing regulations on marine fuel quality and the role and effectiveness of fuel additives. Euro Petroleum Consultants, IMO 2020 - Are you ready? Debate with the Specialists!. London.

Banning, M. (2019). Performance Deterioration of Marine Diesel Engines, Canadian Institute of Marine Engineers Mari-Tech Conference, Ottawa.

## Peer Reviewer

Journal of Marine Engineering & Technology