

Adam Lansdowne

Qualifications

MSci Chemistry (Hons)
University of Nottingham, UK

Year of Birth

1999

Nationality

British

Contact

adam.lansdowne@cwa.uk.com
<http://www.cwa.international>
+44 (0) 20 7242 8444

Current Position at CWA

Adam Lansdowne joined CWA International in 2023 following his time in an industry leading petrochemical analysis laboratory. Prior to this, Adam completed his master's degree in chemistry at the University of Nottingham. His master's thesis was on the synthesis of nitrite hybrid perovskites, with a focus on substitution of polar molecular ions into the perovskite structure to obtain ferroelectric properties.

Adam is involved in the investigation of incidents relating to commodities including marine fuel oils, petrochemicals, petroleum products, acids, vegetable oils, liquefied gas cargoes and dry chemical cargoes. He advises on topics such as causation, mitigation and testing protocols, and attends at laboratories and aboard vessels.

Adam has a broad knowledge of chemistry including supramolecular chemistry, inorganic synthesis and a wide range of analytical techniques. He has extensive laboratory experience obtained during his time working in a commercial laboratory and during his degree, which includes practical use of infrared (IR), inductively coupled plasma (ICP), gas chromatography (GC), x-ray crystallography (XRD), scanning electron microscopy (SEM-EDX) and many other techniques.

Specific Expertise and Experience

Adam has experience in contamination/degradation issues involving a wide range of cargoes, such as;

- Marine Fuel Oils (Bunkers) – Residual and Distillate Grades.
- Petroleum Products – Automotive Gasoline; Gasoil; ULSD; Jet A1; Naphtha; Base Oils; Vacuum Gas Oil (VGO); Kerosene and other petroleum products.

- Petrochemicals – Olefins; Methanol; Ethanol; Mono- and Di-Ethylene Glycol (MEG and DEG); Styrene Monomer; Vinyl Acetate Monomer (VAM); Phenol; Benzene.
- Acids – Wet Process Phosphoric Acid (WPA); Food Grade Phosphoric Acid; Sulphuric Acid.
- Vegetable Oils and Food Related Products – Palm Oil, Palm Olein, Palm Stearin; Sunflower Seed Oil; Palm Fatty Acid Distillate (PFAD); Palm Oil Mill Effluent (POME).
- Liquefied Gas Cargoes – Butadiene, LPG, Propane, Butane, Ethane, Ethylene as well as chemical gasses.

Adam has attended at laboratories in the UK, Europe and Asia and is experienced in the test methods and analysis associated with a wide range of cargoes, including ISO 8217 bunker fuel testing.

He has also attended on-board vessels in the UK, Europe and Asia to investigate contamination incidents, oversee loading and discharge operations, participate in joint cargo and bunker sampling and carry out tank and valve inspections.

Attendances

Adam has attended on board oil/chemical tankers, gas carriers, and at terminals and laboratories. Attendance experience includes overseeing sampling of various petroleum and petrochemical products, sampling of gas cargoes, sampling of bunker tanks, inspection of cargo tanks, inspection of valves, overseeing line pressure tests, and witnessing and directing of laboratory analysis.

Locations attended include Antwerp, Rotterdam, Le Havre, Hamburg, Singapore, Southampton, Cardiff, Liverpool and others.