

Vajin Patel

Qualifications	MChem Chemistry (Hons) University of Manchester, UK
Affiliations	Member of the Royal Society of Chemistry (MRSC) Associate member of the Energy Institute (AMEI)
Year of Birth	1996
Nationality	British
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Current Position at CWA

Vajin Patel joined CWA International in 2018 after completing his master's degree in Chemistry at the University of Manchester. His master's thesis was about the chemistry of uranium particles, with a focus on their chemical behaviour in the environment.

Vajin has a broad knowledge of chemistry including environmental chemistry, separations & spectroscopy techniques, radiochemistry and molecular interactions. He also has laboratory experience obtained during his Chemistry degree, which includes practical use of Nuclear Magnetic Resonance (NMR), Infra-red (IR) and UV-vis spectroscopy techniques.

Specific Expertise and Experience

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

- Marine Fuel Oils – Residual and Distillate Grades
- Petroleum Products – Crude Oil; Jet A-1; Automotive Gasoline; Gasoil; Naphtha; Base Oils; Light Cycle Oil (LCO); Bitumen; Vacuum Gas Oil (VGO); Kerosene; Slurry Oil; Condensate; Sustainable Aviation Fuel (SAF)
- Petrochemicals – Olefins; Methanol; Cumene; Mono- and Di-Ethylene Glycol (MEG and DEG); Methyl Methacrylate Monomer (MMA); Styrene Monomer; Vinyl Acetate Monomer (VAM); Ethyl Acetate; Phenol; Ethanol; Acrylonitrile (ACN); Dichloromethane (DCM), Ethylene Dichloride (EDC); Methyl Ethyl Ketone (MEK); Benzene

- Acids – Wet Process Phosphoric Acid (WPA); Food Grade Phosphoric Acid; Sulphuric Acid; Nitric Acid; Acrylic Acid
- Vegetable Oils and Food Related Products – Palm Oil, Palm Olein, Palm Stearin; Palm Kernel Oil; Sunflower Seed Oil; Coconut Oil; Palm Fatty Acid Distillate (PFAD); Palm Oil Mill Effluent (POME); Molasses; Used Cooking Oil (UCO); Fatty Alcohols; Glycerin
- Liquefied Gas Cargoes – Crude C4; Ethylene; Propylene; LPG; Butadiene; Butane; LNG; Propane
- Caustics – Caustic Soda Solution; Caustic Potash Solution
- Urea Ammonium Nitrate (UAN) Solution
- Dry Chemical Cargoes

Vajin 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 alleged contamination incidents, oversee loading and discharge operations, participate in joint cargo sampling and carry out tank inspections in addition to shoretank sampling at ports.

Attendances

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| Belgium | <ul style="list-style-type: none"> • Attending joint analysis of products including bunker fuel and Jet A-1. |
| Malta | <ul style="list-style-type: none"> • Inspection of cargo tanks following carriage of crude Palm Oil Mill Effluent (POME). |
| Mauritius | <ul style="list-style-type: none"> • Investigating the alleged contamination of Jet A-1 and gasoil cargoes. |
| Romania | <ul style="list-style-type: none"> • Inspection of fertilizer cargo. |
| Singapore | <ul style="list-style-type: none"> • Attending joint analysis of products including bunker fuel, Jet A-1 and MEG. • Sampling of MEG and acetone cargoes. |
| The Netherlands | <ul style="list-style-type: none"> • Attending joint analysis of products including palm oil, coconut oil, gasoline and palm olein. |
| Turkey | <ul style="list-style-type: none"> • Investigating the alleged contamination of coconut oil and palm oil products. |
| U.K. | <ul style="list-style-type: none"> • Attending joint analysis of products including bunker fuel, WPA, caustic soda solution, Jet A-1, gasoil, gasoline, MMA, MEG, DEG, methanol, cumene, DCM, sulphuric acid and EDC. • Metallurgical inspection of engine components. • Sampling of caustic soda solution and naphtha cargoes. • Inspection of cargo tanks following carriage of FAME. |



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