

Dr India Willimott

Qualifications

PhD in Chemistry,
University of Southampton, UK

Intergraded MChem with a Year in Industry,
University of Southampton

Affiliations

Member of the Royal Society of Chemistry (MRSC)

Year of Birth

1992

Nationality

British

Contact

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Current Position at CWA

Chemist

India joined CWA's Oil and Chemicals department as a Chemist in June 2018, following completion of her PhD in Chemistry at the University of Southampton. Her academic background comprises of the synthesis and characterisation of porous materials, including zeolites and metal-organic frameworks.

India has laboratory experience, specifically, in the field of coordination chemistry developed over her academic career at Southampton. She also has practical knowledge of microscopy and X-ray diffraction techniques, utilised in the determination of unknown chemical species. During her PhD, she also worked on collaborative projects and was an active participant in a cross-disciplinary network.

Attendances

India has attended joint witnessed analyses at specialised UK and EU laboratories in addition to advising on contamination incidents affecting a number of cargoes, including, lubricating oils, base oils, bunker fuel oil, gasoline, gas oil/diesel and mono ethylene glycol (MEG).

India has also attended joint witnessed analyses in the UAE at the laboratories of Inspectorate, Fujairah, where she advised on a gasoline contamination incident.

Summary of Previous Employment

October 2014 to May 2018

University of Southampton
Southampton

India pursued a PhD in Chemistry on the subject the formation and self-assembly of metal-organic frameworks. During her PhD India utilised a suite of characterisation techniques, including energy-dispersive X-ray spectroscopy, scanning electron microscopy, powder and crystal X-ray diffraction, thermal gravimetric analysis and more, to further understand the effects of varying reaction conditions posed on the self-assembly of metal-organic frameworks.

July 2012 to June 2013

Infineum International Ltd
Didcot, Oxford

During her time at Infineum India researched the effect of oxidative ageing on friction modifiers for the use in automotive gasoline engine lubricating oils. She utilised techniques such as mini traction machine and high-frequency reciprocating rig to monitor the deterioration of the performance of the additives.

October 2010 to July 2014

University of Southampton
Southampton

India undertook her intergraded masters in chemistry at Southampton, where she tailored her course to focus on environmental and sustainable chemistry.