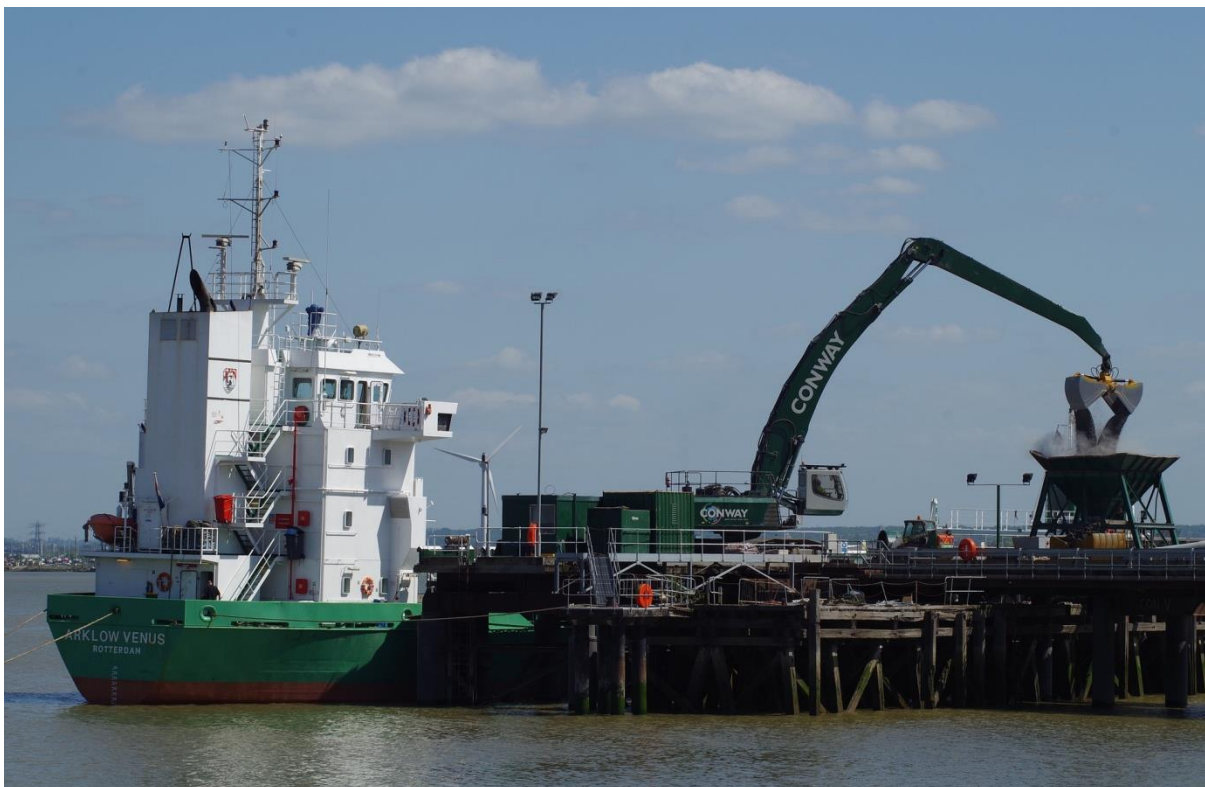




PORT AND TERMINAL OPERATIONS FOR BULK CARGOES
Tuesday 10 and Wednesday 11 March 2020 – plus –
Optional Practical Workshop, Thursday 12 March 2020

The Wolfson Centre for Bulk Solids Handling
University of Greenwich Medway Campus, Chatham Maritime, Kent, UK



Course Overview

The Association of Bulk Terminal Operators (ABTO) is delighted to be partnering with **The Wolfson Centre for Bulk Solids Handling** – part of the University of Greenwich School of Engineering – to deliver this course, hosted by them at their Medway Campus.

The course will examine the issues surrounding the safe handling and storage of bulk materials in ports and on the sea. It is designed to be interactive so delegates are given the chance to discuss real life issues and to determine best practice for future developments.

NEW FOR 2020: Our first course last year included a visit to The Wolfson Centre's pilot plant. Interest was such that this year we will be offering an optional **Practical Workshop**, to be held in their on-site industrial-scale pilot plant.

Format

A two day course, mixing practical demonstrations with theory elements, plus an optional practical workshop at the pilot plant.

Subjects covered

- Ship unloading technologies – *grabs vs CSUs, different CSU technologies*
- Conveying technologies – *pneumatic vs belt*
- Storage and discharge technologies – *silos, flat stores, stacking etc*
- Loading and unloading control – *weighing, controlling ship bending etc*
- Rail and road out loading equipment and control
- Explosion and fire risks and management – *ATEX, fire control and management*
- Mobile plant and safety
- Developments in automation and autonomous vehicles
- Dust control and environmental protection
- Controlling cargo damage – *particle degradation, spoilage, water damage etc*
- Wear protection and maintenance
- Cargo characterisation for handleability and other issues

About the optional practical workshop

One of the major issues when handling bulk materials at the port terminal is the characteristics of the cargo. This affects the suitability of the machinery, the sizes and throughputs, safety hazards, dust emissions and also the susceptibility of the cargo to damage in handling.

Usually when a shipment is contracted the paperwork is signed without reference to cargo characteristics. Therefore, if dealing with a range of different cargoes, or the same cargo but from different sources, it is important to understand how the character could change and how this might affect operations.

The focus of the practical session is to take samples of different cargoes and to measure their characteristics. This way the changes can be seen and consequently the implications for port operations determined.

Benefits of the attending the course

Delegates will gain an understanding of the reasons for the varied behaviour of powders and particulate materials as they travel across the seas or are stored and transported from ports.

Who should attend?

Anyone concerned about or responsible for the safe handling and storage of bulk materials in ports and on the sea, *particularly:*

- Stevedores ● Operations supervisors ● Port and business development managers
- Port developers ● Cargo superintendents ● Equipment suppliers ● Design consultants
- Ships Masters ● Safety managers and consultants

Your course leader



The course leader is **Mike Bradley, Professor of Bulk and Particulate Technologies** and Director of The Wolfson Centre. Mike has worked internationally on design and troubleshooting for bulk solids handling as a commercial consultant and research expert for over twenty years.

Venue

The course will be held at the **University of Greenwich Medway Campus**, Chatham Maritime, Kent, ME4 4TB, UK

Registration fees

Delegate fee – ABTO Member 2 day	£1,100.00
Delegate fee – Non Member 2 day	£1,200.00
Delegate fee – ABTO Member 3 day	£1,500.00
Delegate fee – Non Member 3 day	£1,600.00

Registration

To book your places please click [here](#) to complete the on line booking form. The fee covers all course notes, refreshments and a meal on the evening of the first day. Please note the **discounts and cancellation charges** which apply.

When you complete the on line booking form, if you wish to attend the practical workshop be sure to click on both boxes:

- Port and Terminal Operations for Bulk Cargoes; 10 - 11 March 2020 – *and* –
- Port and Terminal Operations for Bulk Cargoes; 12 March 2020

The Association of Bulk Terminal Operators (ABTO) bulkterminals.org

ABTO was formed to provide a voice for the bulk terminal industry representing its interests at the highest level and providing a forum for discussion on the issues affecting operators and suppliers. Please email us at membership@bulkterminal.org for further details or click [here](#) to join ABTO.

The **BULK TERMINALS** conference – the only event aimed at the entire bulk terminals industry – takes place October or early November each year.

With a full programme focused on the concerns of operators, each year ABTO's Bulk Terminals conference offers sound practical solutions for improving safety, streamlining operations and ensuring environmental protection – as well as a market analysis and development opportunities. The only event all those concerned with the bulk terminals industry need to attend.

For speaking or sponsorship opportunities, or to register an interest in attending in 2020, please contact Simon Gutteridge: events@bulkterminals.org +33 (0)321 47 72 19.

As well as running conferences and courses to facilitate networking, discussion and education within the bulk terminal community, ABTO publishes a monthly e-newsletter *ABTONews* and a quarterly magazine, *Bulk Terminals International (BTI)*, edited by Sandra Speares speares1@aol.com For advertising please contact Bill Robertson production@bulkterminals.org

The Wolfson Centre for Bulk Solids Handling Technology – *independent expertise providing cost-effective solutions to industrial problems.*

The Wolfson Centre for Bulk Solids Handling Technology is internationally recognised for its expertise in fields associated with bulk particulate handling and in the science and practical application of technologies to deliver improved process efficiencies. Our mission is to help industry to get powders and **bulk materials** to behave predictably through processes. Please click [here](#) to read more.

In-Company course

Port and Terminal Operations for Bulk Cargoes can be delivered by the The Wolfson Centre as an In-Company course with a limited hands-on element. These courses are proving to be a popular option for companies who have a number of personnel who would benefit from education in the subject area, for three main reasons:

COST: It is more economic to bring the course to you, than for you to send several staff out to them

RELEVANCE: They can tailor the course programme to suit the operations you have in your plant, hence reducing the amount of material which is not directly relevant

CONVENIENCE: They can run the course when it suits you, even over several separate days rather than in a block if it is better for you.

Caroline Chapman +44 (0)20 8331 8646 wolfson-enquiries@gre.ac.uk

Other Short Courses run by The Wolfson Centre

The Wolfson Centre offers a range of very popular and useful short courses designed specifically for industry. They are all designed to suit the needs of engineers, managers, skilled operatives, maintenance crew or anyone involved in using or handling powders or particulates.

Courses cover: • Pneumatic conveying • Storage of bulk materials • General bulk materials handling • Specialist areas of concern. For the full list and Course Calendar please click [here](#)