



**Port and Terminal Operations for Bulk Cargoes  
Tuesday 12 – Wednesday 13 March 2019**

**University of Greenwich Medway Campus, Chatham Maritime, Kent, UK**



**Course Overview**

**The Association of Bulk Terminal Operators (ABTO)** are delighted to be partnering with the **The Wolfson Centre for Bulk Solids Handling** – part of the University of Greenwich School of Engineering – to deliver this new 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.

**Format**

A two day course, mixing practical demonstrations with theory elements. Time will be spent in the on-site pilot plant working 'hands-on' with cargo characterisation testing.

### 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

### 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 managers • Port developers
- Cargo superintendents • Equipment suppliers • Design consultants • Ships Masters

### Your course team

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.



## **Port and Terminal Operations for Bulk Cargoes *continued***

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Also contributing will be **Richard Farnish, Consultant Engineer**, who has nearly twenty years' experience in commercial design work related to materials handling, specialising in metering powders



and **Dr Rob Berry**, a Research Fellow with over ten years' experience in bulk solids handling technology.



Please note that ABTO and The Wolfson Centre reserves the right to substitute leaders of equal quality should this be dictated by circumstances beyond their control.

### **Venue**

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

### **Course Fees**

£1,200.00 per delegate  
£1,100.00 ABTO members

### **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.**

### **In-Company course**

This course 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.

To discuss your requirements, please contact Simon Gutteridge +33 (0)321 47 72 19

[events@bulkterminals.org](mailto:events@bulkterminals.org) – or – Caroline Chapman +44 (0)20 8331 8646

[wolfson-enquiries@gre.ac.uk](mailto: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](#)

### **About 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.

### **About The Association of Bulk Terminal Operators (ABTO)**

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](mailto:membership@bulkterminal.org) for further details or click [here](#) to join ABTO.

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*, edited by Patrik Wheeler [pwheater@seabornecomms.com](mailto:pwheater@seabornecomms.com) and a quarterly magazine, *Bulk Terminals International (BTI)*, edited by Sandra Speares [speares1@aol.com](mailto:speares1@aol.com) For advertising please contact Bill Robertson [production@bulkterminals.org](mailto:production@bulkterminals.org)