

# Booking Form

## Oil Pollution Detection and Monitoring Seminar 20th November 2001

Full name (inc. title).....

Preferred name for badge.....

Job title.....

Company.....

Address.....

.....Post code.....

Telephone.....Fax.....E-mail.....

We expect the event to be heavily subscribed. Places are limited and are allocated on a first come, first served basis. Your place will be confirmed on receipt of a booking form

### Method of Payment

- Delegate Rate: £335 + VAT
- Special Delegate Rate: £300 + VAT for NEL's Oil-in-Water Monitoring Club members
- Early booking discount (10% off Normal Rate): £300 + VAT (This only applies to Registrations received on or before 1st October 2001)
- Invoice to company named above
- Cheque, made payable to National Engineering Laboratory, enclosed with this form
- Bank transfer to National Westminster Bank plc, East Solent, 176 London Road, Portsmouth, Hampshire, PO2 9DR. Account No. 11300175, Sort Code 52-41-32. Account name- "TUV NEL Limited". Please advise your bank to include the event code COF116 and the delegate's surname in the transfer instructions.

Credit Card

Visa     Mastercard    expiry date.....

Card No.     -     -     -

Card Holders Name.....Signature.....

Address (if different from above).....

Payment must be received prior to the event . Under UK excise regulations all delegates are required to pay VAT at 17.5% on any conference/course taking place in the UK.

### Cancellation Policy

Substitution of delegates can be made at any time. Cancellations may be submitted no later than 30th October 2001 and will be subject to a charge of £50 + VAT. There is no refund for cancellations received after this date. NEL reserves the right to cancel the event due to unforeseen circumstances. NEL is not liable for any expenses incurred by the delegate. This programme may be subject to change due to circumstances beyond the control of the organisers

### Venue and Accommodation

James Watt Business Centre, NEL, East Kilbride, Glasgow.  
If accommodation in East Kilbride is required please contact Susan Tough (stough@nel.uk) and she will provide you with a list of local hotels.

### Exhibition Opportunity

If you are a service provider to the water, power generation, petrochemical or process industry and would like to exhibit your products or services at this event please contact Susan Tough as above.

### Discussion Sessions

Please note any topics which you would particularly like raised during one of our discussion sessions.

Signed.....Date.....

Please photocopy and faxback or post to: Susan Tough, NEL, East Kilbride, Glasgow G75 0QU, UK  
Fax: +44 (0)1355 272626 E-mail: stough@nel.uk Online booking: www.nel.uk. Telephone enquiries to Susan Tough +44 (0)1355 272858

Where did you hear about this event? .....



# OIL POLLUTION DETECTION AND MONITORING SEMINAR

20 November 2001

**James Watt Business Centre  
NEL  
East Kilbride  
Glasgow  
Scotland**

- Legislation Update and Implications
- Oil Pollution Sources and Prevention
- Oil-on-Water Monitoring
- Oil-in-Water Monitoring
- Oil-in-Soil and PAH detection
- Remote Sensing
- Open Discussions



## INTRODUCTION

Oil is one of the most common types of water pollution in the UK. Every year there are several thousand incidents that cause oil pollution, therefore monitoring and detection of oil becomes an important tool to provide early warning systems and to prevent such pollution. Prevention of oil pollution is always considered to be better than the need to treat or clean. This is because not only are treatment and cleaning processes usually difficult and expensive, but such incidents can also seriously damage a business's reputation.

Vast amounts of water are taken every day from rivers, lakes and underground, and are then treated before being used as drinking water or for industrial purposes. The presence of oil can make the water seriously unfit for these purposes. Detection and monitoring of oil-in/on-water at water intake points could ensure that such oil contaminated water is not taken, or is being treated with a different procedure.

In effluent trading and sewerage treatment, content of organic pollutants is one of the key parameters that affect the costs to both the sewerage undertakers and effluent dischargers. Organic pollutants are often measured in terms of Chemical Oxygen Demand (COD). Alternative and more rapid methods have been developed and used.

## SEMINAR OBJECTIVES

The seminar will focus on oil pollution detection and monitoring that applies to onshore land based industries. The purpose of the seminar is for interested parties to find out the current state of oil pollution, latest legislative developments in prevention and control of oil pollution, and to keep abreast of the latest technological developments in oil pollution detection and monitoring.

The seminar intends to help answer the following questions:

- What are the legislation, and governmental policy in oil pollution control and prevention?
- What measures have been taken by the UK government to prevent oil pollution?
- What roles do oil pollution detection and monitoring play in preventing serious oil pollution?
- What benefits can such monitoring instruments bring to industries like the water, process, power generation, petrol-chemical/refineries?
- What instruments and technologies are available in oil-on/in- water monitoring?
- Why do we need remote sensing and what technologies are there?
- What techniques are available for measuring petroleum hydrocarbons in soil, and for measuring Polycyclic Aromatic Hydrocarbons (PAHs) and why it is important to measure the PAHs?

## WHO SHOULD ATTEND

The event is designed for those who are concerned with the analysis, processing and discharge of oil contaminated water. It is aimed at:

- Environment Laboratory Chemists
- Environmental Engineers / Advisers / Officers
- Instrument Engineers
- Chemical Engineers
- Process Engineers
- Researchers

from water, power generation, refinery & petrochemical, process and manufacturing industries.

## DISCUSSION PERIODS

There will be two open discussion periods addressing practical problems and solutions.

The first will concentrate on legislation, its implications of costs and technology changes, oil-on-water monitoring and remote sensing. The second will look at the field operational experiences, industrial needs for both on-line oil-in/on-water monitoring, organic monitoring for effluent trading, detection and monitoring of petroleum hydrocarbon in soil, and analysis of Polycyclic Aromatic Hydrocarbons (PAHs).

Please indicate on the booking form any additional areas of specific interest.

## NEL

NEL is one of Europe's leading engineering technology services organisations.

NEL has an international reputation in key engineering areas; a world class profile based on 50 years of solid achievement and experience. The professional and highly qualified staff are complemented by one of the most extensive test, analysis and experimental facilities in Europe.

For further details on how NEL can help your business, please visit our web site: [www.nel.uk](http://www.nel.uk) or contact details at the end of this document.

## WORKSHOP FEES

The registration fee for this seminar is £335 + VAT.

A discounted rate of £300 + VAT is available for NEL's Oil-in-Water Monitoring Club members and for all bookings received on or before 1st October 2001.

The registration fee includes delegate fee, lunch and refreshments and seminar proceedings.

Accommodation is not included in the seminar fee.

## TECHNICAL PROGRAMME

08:30 - 09:00	Registration and Coffee
09:00 - 09:10	<b>Chairman's Welcome and Introduction</b> Phil Chatfield, Environment Agency, UK
09:10 - 09:35	<b>Legislation Update on Oil Pollution and Monitoring</b> Robert Kerr, SEPA, UK
09:35 - 10:00	<b>Preventing Oil Pollution by Taking Care of Oil</b> Mark Wells, SEPA, UK
10:00 - 10:25	<b>Review of Oil-on-Water Monitoring Technology</b> Ming Yang, NEL, UK
10:25 - 10:45	COFFEE BREAK
10:45 - 11:10	<b>On-line Oil-on-Water Monitoring Detection - Field Operational Experience from Severn Trent</b> Brian Drage, Severn Trent Water Ltd, UK
11:10 - 11:35	<b>On-line Oil-on-Water Monitoring Detection - Field Operational Experience with IONICS Devices</b> Mike Porter, Ionics Instrument Business Group, UK
11:35 - 12:00	<b>Review of Remote Sensing Technology for Oil Pollution Monitoring</b> Dan Ulrich, TERMA Elektronik AS, Denmark
12:00 - 12:20	<b>OPEN DISCUSSION PERIOD</b> • New Legislation and Its Impact • Oil-on-Water Monitoring • Remote Sensing • Operational Experience
12:20 - 13:35	LUNCH
13:35 - 14:00	<b>Determination of Organic Pollutants Using TOC, TC, TOD and COD</b> Mike Porter, Ionics Instrument Business Group, UK
14:00 - 14:25	<b>The Water Industry's Need for On-line Oil-in-Water Monitors</b> Peter Robinson North of Scotland Water Authority (NOSWA), UK
14:25 - 14:50	<b>Evaluation of Oil-in-Water Monitors for the Power Industry</b> Nigel Drew BNFL, UK
14:50 - 15:10	COFFEE BREAK
15:10 - 15:35	<b>Identifying and Quantifying Fuel and Oil Contamination in Soil and Water</b> Mike Cohen Severn Trent Laboratories Ltd, UK
15:35 - 16:00	<b>Methods of Analysing Polycyclic Aromatic Hydrocarbons (PAHs)</b> Ian Barnabas Analytical & Environmental Services (AES), UK
16:00 - 16:30	<b>OPEN DISCUSSION PERIOD</b> • Low Concentration Oil-in-Water Monitoring • COD, TOC, TOD and TOC Analysis • Oil-in-Soil and PAHs Measurement • Industrial Need • The Costs of Future Development • Operational Problems and Solutions • The Way Forward
16:30	<b>CHAIRMAN'S CLOSING REMARKS</b>