



25 - 27 March 2009, Sinaia - Romania  
Auditorium Hall - International Hotel

# Investigation and Risk-Based Remediation of Contaminated Soil

- strategies and techniques for the oil & gas industry -

Remediarea solurilor contaminate - metode de investigare si gestionare pe baza riscurilor  
- strategii si tehnici pentru industria de petrol si gaze naturale -



## PROPOSED AGENDA / AGENDA PROPUSA

**Day 1 - 25 March 2009**

**Ziua I – 25 martie 2009**

**15.00 – 15.30 Registration and Welcome Coffee**  
**Inregistrarea participantilor si cafeaua de bun venit**

**15.30 – 15.45 Official Opening of the Conference**  
**Deschiderea oficiala a Conferintei**

- ▶ **Welcome Speech - Purpose of the Conference**  
**Cuvant introductiv privind scopul conferintei**  
**Gerald ANTES** – Director, PETROM E&P – Environmental Engineering Department

**15.45 – 17.00 Session I / Sesiunea I**  
**Romanian and EU Regulations. PETROM E&P Strategy**  
**Legislatia Uniunii Europene si a Romaniei. Strategia PETROM E&P**

**Moderated by** Prof. Univ. Dr. Eng. Ioan BICA - Dean of Hydrotechnics Faculty, Technical University of Civil Engineering – Bucharest (UTCB)

- ▶ **Romanian Regulation of Contaminated Sites: Investigation and Remediation**  
**Legislatia romaneasca privind siturile contaminate: investigare si remediere**  
**Teodor SILEAM** – Chief of Soil and Subsoil Protection Department - Direction for Nature Conservation, Biodiversity, Soil and Subsoil Protection, National Environmental Protection Agency (ANPM)
- ▶ **EU Regulation regarding Investigation and Remediation of Contaminated Site & NICOLE Involvement**  
**Legislatia UE privind investigarea si remediarea siturilor contaminate & implicarea NICOLE**  
**Daniela Ioana FLOREA** - Authorities Liaison Officer, PETROM E&P - Environmental Engineering Department  
Prof. Univ. Dr. Eng. **Ioan BICA** - Dean of Hydrotechnics Faculty, Technical University of Civil Engineering – Bucharest (UTCB)
- ▶ **PETROM E&P Strategy for Contaminated Site Management**  
**Strategia PETROM privind gestiunea siturilor contaminate**  
**Valentin IORDACHE** - Head of Waste Management, PETROM E&P – Environmental Engineering Department

**17.00 – 17.30 Discussions and Closure of Day I**  
**Discutii si inchiderea primei zile a Conferintei**

**19.00 Dinner / Cocktail**

**08.30 – 09.30 Breakfast / Mic dejun****09:30 – 11.00 Session II / Sesiunea a II-a****Investigation and Risk Assessment for Contaminated Sites by Oil & Gas Industry****Investigarea si evaluarea riscului pentru siturile contaminate din industria de petrol si gaze naturale**

*Moderated by Daniela Ioana FLOREA - Authorities Liaison Officer, PETROM E&P – Environmental Engineering Department*

- ▶ ***A Risk Based Methodology in Compliance with EU Contaminated Land Directives***  
***Metodologia bazata pe risc in conformitate cu Directivele UE privind zonele contaminate***  
Mirela RADU – Deputy General Manager, Synecs Consulting
- ▶ ***Investigation Strategies for Risk-based Remediation***  
***Strategii de investigare pentru remedierea solurilor contaminate pe baza evaluarii riscurilor***  
Walter HEINZ – Partner, ERM Environmental Resources Management
- ▶ ***F&R INVESTIGATION focused on drilling, sampling, sampling grids, groundwater monitoring wells and pump tests***  
***Investigarea F&R privind forarea, prelevarea probelor, matricea de investigare, sondele de monitorizare a apei freatic si testele de pompare***  
Representative of F&R
- ▶ ***Direct Push Method for Contaminated Sites Investigation***  
***Metoda Direct Push pentru investigarea siturilor contaminate***  
Eugeniu MARTAC – Geophysicist, Manager Romania Operations, geo-log GmbH

**11.00 – 11.30 Discussion / Discutii****11.30 – 12.00 Coffee Break / Pauza de cafea****12.00 – 13.30 Session II / Sesiunea a II-a****Investigation and Risk Assessment for Contaminated Sites by Oil & Gas Industry (continuation)****Investigarea si evaluarea riscului pentru siturile contaminate din industria de petrol si gaze naturale (continuare)**

*Moderated by Valentin IORDACHE - Head of Waste Management, PETROM E&P – Environmental Engineering Department*

- ▶ ***Groundwater Modelling as a Risk Assessment Tool***  
***Modelarea apei subterane – instrument de evaluare a riscului***  
Monica PANDELE - Consultant, ERM Environmental Resources Management
- ▶ ***Possibilities and limitations of DC-geolectrical methods for investigation of contaminated soil and groundwater***  
***Posibilitati si limite ale metodelor geolectrice DC pentru investigarea siturilor contaminate***  
Markus HIRSCH - Department Groundwater Remediation, Helmholtz Centre for Environmental Research - UFZ
- ▶ ***Oil Contaminated Sites Identifying and Setting out by Application of Geoelectric Research through Resistivity Method***  
***Aplicabilitatea cercetarii geoelectrice prin metoda rezistivitatii la identificarea si delimitarea zonelor contaminate cu produse petroliere***  
Teodor SILEAM – Chief of Soil and Subsoil Protection Department - Direction for Nature Conservation, Biodiversity, Soil and Subsoil Protection, National Environmental Protection Agency (ANPM)

**13.30 – 14.00 Discussion / Discutii**

**14:00 – 15:00 Business Lunch / Pranz de afaceri**

**15:00 – 16.30 Session II / Sesiunea a II-a**

**Investigation and Risk Assessment for Contaminated Sites by Oil & Gas Industry (continuation)**

**Investigarea si evaluarea riscului pentru siturile contaminate din industria de petrol si gaze naturale (continuare)**

*Moderated by Teodor SILEAM – Chief of Soil and Subsoil Protection Department - Direction for Nature Conservation, Biodiversity, Soil and Subsoil Protection, National Environmental Protection Agency (ANPM)*

- ▶ **The Presentation of Large Datasets using GIS and its Application in Site Conceptualisation**  
*Prezentarea seturilor largi de date folosind GIS si aplicabilitatea lor in conceptualizarea siturilor*  
Martin PERKINS, Halcrow
- ▶ **Difficulties, uncertainties and limits in establishing groundwater remediation levels**  
*Dificultati, incertitudini si limite in stabilirea nivelelor de remediere a apei subterane*  
Prof. Univ. Dr. Eng. **Ioan BICA** - Dean of Hydrotechnics Faculty, Technical University of Civil Engineering – Bucharest (UTCB)
- ▶ **Natural Attenuation of Hydrocarbons**  
*Atenuarea naturala a hidrocarburilor*  
Markus Hutter – IMU Laboratories

**16.30 - 17.00 Discussion and Closure of Day II**

**Discutii si inchiderea celei de-a doua zi a Conferintei**

**19.00 Gala Dinner / Cina festiva**

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**Day 3 - 27 March 2009**

**Ziua a III-a – 27 martie 2009**

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**09.30 – 10.00 Breakfast / Mic dejun**

**10.00 – 11.30 Session III / Sesiunea a III-a**

**Remediation of Contaminated Sites**

**Remedierea siturilor contaminate**

*Moderated by Gerald ANTES - Director, PETROM E&P – Environmental Engineering Department*

- ▶ **In situ Remediation of Hydrocarbons**  
*Remedierea in situ a hidrocarburilor*  
Alfred FRITSCH - INTERGEO Umwelttechnologie und Abfallwirtschaft GmbH
- ▶ **MNA of Crude Oil Contamination - Case Study OMV**  
*Monitorizarea atenuarii naturale a contaminarii cu titei - studiu de caz OMV*  
Janek SIWCZYK
- ▶ **Dekonta Oil Spill Response**  
*Dekonta - interventie in caz de poluari accidentale*  
Ioana GRECU – Branch Manager, Dekonta
- ▶ **PETROM CITY – Project for Demolition and Decontamination of the Ex- bulk Plant (Big Oil Storehouse)**  
*PETROM CITY - Proiect de demolare si decontaminare a unui fost depozit de produse petroliere (de mare capacitate)*  
Bernhard VOLZ – Project Manager, ZÜBLIN Umwelttechnik GmbH

**11.30 – 12.00 Discussions, Conclusions and Conference's Closure**

**Discutii, concluzii si inchiderea Conferintei**

**12.30 – 13.30 Business Lunch / Pranz de afaceri**