

Sustainable Approaches to Remediation of Contaminated Land in Europe (SARCLE-2011)

Contaminated Site Management in Europe (CSME-2011)

Call for Abstracts: Deadline - Thursday, June 30, 2011
www.redoxtech.com



NH Gent Belfort Hotel, Gent, Belgium
October 24-26, 2011

Plenary Speaker (Confirmed)

Professor Paul Nathanail, University of Nottingham and Land Quality Management,
United Kingdom

**When Sustainable Remediation is not Enough: Integrated Sustainable Redevelopment
of Brownfield Sites**

Invited Speakers (Confirmed)

The following experts have kindly confirmed their commitment to give invited presentations
(30 min each) at **SARCLE - 2011/CSME - 2011**:

Dr. Leen Bastiaens, VITO, Belgium

Dr. Jeremy Birnstingl, Regenesys Ltd, United Kingdom

Dr. Philip Block, FMC Corporation, USA

Geologist Sandy Britt, ProHydro, Inc., USA

Engineer Douglas Carvel, MEC^X, USA

Professor Daniel Cassidy, Western Michigan University, USA

Dr. Joke Van De Steene, DEME, Belgium

Dr. Eric de Zeeuw, Groundwater Technology, B.V., The Netherlands

Dr. George E. Hoag, VeruTEK Technologies, Inc., Bloomfield, CT, USA

Engineer Willem Havermans, NTP MILIEU Enschede, Belgium

Professor Vladimir Jirku, Institute of Chemical Technology, Czech Republic

Dr. Petr Kvapil, AQUATEST a.s., Czech Republic

Dr. Richard Lookman, VITO, Belgium

Professor Erik Meers, Ghent University, Belgium

Professor Jean Louis Morel, Nancy Université INPL-CNRS, France

Dr. Michael Neuhaus, Fugro Consult GmbH, Germany

Dr. Lorenzo Sacchetti, Carus Europe, Spain

Professor Piet Seuntjens, VITO, Ghent University and University of Antwerp, Belgium

Professor Marie-Odile Simonnot, Nancy Université INPL-CNRS, France

Dr. Jeroen Vandenbruwane, Uniersoil BVBA, Belgium

Engineer Jan Van Linden, URS Belgium

Dr. Lenka Wimmerova, DEKONTA, a.s., Czech Republic

Platform Presenters and Poster sessions

The program will also include platform presentations which will be chosen from abstracts that
will be received based on "Call for Papers" and poster sessions.

Conference Organizer

Hussain Al-Ekabi, Ph.D.

President, Redox Technologies, Inc., The University of Western Ontario Research Park,
100 Collip Circle, Suite 110, London, Ontario N6G 4X8 Canada
Phone: (519) 858-5055, Fax: (519) 858-5056
E-mail: Hussain@alekabi.com; Website: www.redoxtech.com

Sustainable Approaches to Remediation of Contaminated Land in Europe

(SARCLE– 2011)

Sustainability is defined as “providing the best outcomes for the human and natural environments both now and into the indefinite future” (Scripps College) as well as “meeting the needs of the present generation without compromising the ability of future generations to meet their own needs” (Brundtland Commission). When applied to the remediation of contaminated land, sustainability means that there is a net improvement to the environment for human and ecological receptors. Remediation activities can consume energy and water, produce wastes, release toxins to air and water, produce green house gases, and impact the quality of life in local communities. These factors need to be balanced against the resulting mitigation of environmental impacts and improvements in land use resulting from remediation.

Sustainability in remediation is an evolving risk management and regulatory concept. Currently, it is viewed and applied as a guidance principle and not as a specific regulatory requirement. The tools to assess and quantify sustainability as a factor in evaluating remedial options are still being developed. One expression of sustainability is the use of “green” technologies. “Green” technologies utilize “the application of the environmental science to conserve the natural environment and resources” (Wikipedia).

The purpose of this conference on “Sustainable Approaches to Remediation of Contaminated Land in Europe” is to provide a forum to discuss policy, tools, technologies, and applications relating to the development of sustainability as a core value in remediation practices.

The conference will cover four primary areas. These areas will include:

1. Policy, Regulations and Guidance for Sustainable Remediation including:

- a. Regulatory, governmental and NGO initiatives for evaluating and applying sustainable remediation; regional and country-specific differences in perspectives;
- b. Sources of information and guidance on sustainable remediation (regulatory, industrial, and public interest groups actively supporting sustainable remediation, such as CL: AIRE, NICOLE, SAGTA, SURF and SURF-UK); and
- c. Development of standardized protocols for the evaluation and implementation of sustainable remediation (current and upcoming guidelines for the proper evaluation, use, and monitoring of sustainable remediation projects).

2. Sustainability Metrics including:

- a. Tools for evaluating sustainability - qualitative and quantitative procedures to evaluate resource (energy and water) consumption, environmental impacts, technology selection, and project expenses; weighting of factors to provide a ranking of alternative approaches; determining net environmental benefit;
- b. Improving sustainable remediation evaluations and decisions (improvements in site characterization technologies and approaches, stakeholders input, and economic analyses to provide data for evaluating sustainability); and
- c. Measuring the effectiveness of sustainable remediation projects (what quantitative methods are used to ensure that sustainable remediation projects are meeting their design criteria for contaminant treatment as well as minimizing environmental impacts).

3. Green Technologies, including:

- a. Technologies and remediation strategies used in sustainable remediation projects (what existing technologies, promising “green” technologies and implementation strategies are suitable for use in new remediation projects to provide a more sustainable approach);
- b. Retrofitting existing remediation projects to improve sustainability; and
- c. Comparative evaluations of remedial technologies to assess resource consumption (energy and water), production of wastes, release of toxins to air and water, production of green house gases, and impact on the quality of life in local communities.

4. Case Histories including:

- a. Integrating sustainable principles, practices and metrics into remediation projects (case studies of life-cycle design evaluations, technology evaluation and design, field pilot testing, retrofitting of existing projects, and full-scale projects);
- b. Impediments and barriers to sustainable remediation (what they were and how they were overcome including societal, technical, economic, regulatory, and legal issues); and
- c. Improving land use through remediation while maintaining environmental protectiveness.

Panel Discussion on Sustainable Remediation: The panel will discuss the following issues:

- 1. Will sustainability be regulation driven or only guidance based?
- 2. Can sustainability be accurately and quantitatively evaluated?
- 3. Is “green technology” really an improvement in available technology or just marketing?
- 4. Does any-one really use sustainability principles in land remediation projects?

Contaminated Site Management in Europe

(CSME – 2011)

The **Contaminated Site Management in Europe** is directed at understanding and effectively managing the complex nature of sites contaminated with organic and inorganic constituents. Effective contaminated site management necessitates balancing a number of overlapping and interrelated factors including technical, legal, regulatory, societal and business (economic) issues. Contamination creates impacts; impacts drive liabilities. There have been significant advancements in our understanding of contaminated sites and in our abilities to effectively manage them. This conference seeks to provide a comprehensive forum to discuss these advancements.

The conference will have three primary themes. These themes will include:

- 1. Tools for Defining/Elucidating Impacts and Liabilities,**
- 2. Tools for Mitigating Impacts to Soil, Sediments and Water**
- 3. Strategies for Managing Contaminated Properties**

Abstracts will be accepted for each of these themes in the following topic areas. The topic areas listed below are suggestions only. Actual topic/sessions will be decided based upon the abstracts received.

1. Tools for Defining Impacts and Liabilities:

- Tools and methods for defining contaminant distribution such as MIPs, Waterloo Profilers, etc.
- Understanding matrix diffusion
- Contaminant transport in complex lithologies
- Using the Triad Approach for effective site characterization
- Data management and graphical tools for contaminant distribution and transport
- Molecular/biological tools for understanding contaminant transformations
- Human and ecological risk determination
- Developing effective conceptual site models
- Emerging contamination issues

2. Tools for Mitigating Impacts to Soil, Sediments and Water:

- Biological methods of contaminant treatment
- Oxidative and reductive chemical processes for contaminant treatment
- Contaminant stabilization and fixation
- Natural attenuation processes including abiotic and biotic processes
- Innovative delivery methods for treatment amendments
- Extraction technologies using air, water, heat or energy
- Use of Technical Impracticability

- Plume management
- Source treatment technologies
- Large plume management and treatment

3. Strategies for Managing Contaminated Properties:

- Sustainable Remediation
- Integrating remediation and development (brownfields)
- Regulatory initiatives impacting contaminated sites
- Managing natural resource damages
- The economics of remediation
- Effective portfolio management for contaminated properties
- Control versus treatment
- Managing third party liabilities

Call for Abstracts

Please submit for **SARCLE-2011** and/or **CSME-2011** by **Thursday, June 30, 2011** up to 500 words abstract. Include whether you prefer a platform or a poster presentation. Please identify the Theme and the topic area you prefer for your abstract. Submissions for consideration as poster presentations are strongly encouraged (each poster will have 1.2 m x 1.2 m of display space).

Guidelines to Prepare Abstracts

Please follow the following guidelines in preparing your abstract(s):

- Type single space using, if possible, Times New Roman 12-point font (preferred);
- Keep all material within a one-inch margin on all sides;
- The title should be typed in boldface capital letters centered at the top of the page;
- Leave a double space between the title and the names of the author(s);
- The names of the authors should be typed in boldface in single space, followed by the addresses of the authors in single space; underline the name of the presenting author;
- Leave a double space between the end of the addresses and the opening paragraphs; and
- Abstracts should be sent, in Microsoft Word format, to Dr. Hussain Al-Ekabi (E-mail: hussain@alekabi.com).

Call for Exhibits

Companies conducting business related to areas covered by **Sustainable Approaches to Remediation of Contaminated Land in Europe** and/or **Contaminated Site Management in Europe** are invited to exhibit their products and/or services. Exhibits will be displayed throughout the conferences in a central area near the registration desks, coffee breaks, poster sessions and lecture rooms. The cost of an 8-ft x 10-ft exhibiting space is **€2,000.00** if payment is received on or before **Thursday, June 30, 2011**, and **€2,250.00** if payment is received after that date. This includes two free registrations to attend the technical sessions of the conference. Please, reserve early, as space is limited, and will be served on a first come first serve basis.

Registration

The deadline for the early registration is **Thursday, June 30, 2011**. The on-site registration starts on **Sunday, October 23, 2011 at 2:00 – 8:00 p.m.** and will resume on **Monday, October 24 at 7:30 a.m.**

Important Note

All registration fees are set in the European Union currency (Euro). The registration fees can be paid either by credit cards (Visa, Master Card or American Express) or by a bank transfer. Payment made by Visa will be converted, at our end, into their equivalents in US Dollars using the exchange rate of Bank of Canada. Payments made by a Master Card or an American Express Card will be converted, at our end, into their equivalents in Canadian dollars using also the exchange rate of Bank of Canada. As a result, depending on the fluctuation of the exchange rate and potential fees that your credit card financial institution may apply for the conversion, payments by credit card may turn to be slightly higher than the actual amount stated on the registration form. For payments by bank transfer please contact Redox Technologies Inc. for details (E-mail: hussain@alekabi.com). Please note that you are required to fax to Redox Technologies, Inc. a proof of your bank transfer payment. Participants are also allowed to pay by cash for on-site registration only.

Meeting Site and Accommodation

Contaminated Site Management in Europe will be held at the NH Gent Belfort Hotel, Ghent, Belgium. A block of rooms with discounted conference rates has been reserved for the participants until **Friday, September 9, 2011**. The rate is **€115.00** per night for a single-bed room and **€125.00** for a double bed room. Breakfast is included in both rates. For reservations, please contact the hotel by phone: **32 9 268-3601**.

REGISTRATION FORM

Sustainable Approaches to Remediation of Contaminated Land in Europe (SARCLE – 2011)

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Contaminated Site Management in Europe (CSME – 2011)

NH Gent Belfort Hotel, Gent, Belgium, October 24-26, 2011

➔ **Personal Data:**

Name: _____ Professional Title: _____

Organization & Mailing Address: _____

Phone: _____ Fax: _____ E-mail: _____

➔ **Registration Fees (In Euro):**

Registration Options

Early Registration

Standard Registration

Before June 30, 2011

After June 30, 2011

<input type="checkbox"/> Participant	<input type="checkbox"/> €675	<input type="checkbox"/> €775
<input type="checkbox"/> Invited Speaker	<input type="checkbox"/> €500	<input type="checkbox"/> €600
<input type="checkbox"/> Platform Presenter/Poster Presenter	<input type="checkbox"/> €600	<input type="checkbox"/> €700
<input type="checkbox"/> Student (supporting letter is needed)	<input type="checkbox"/> €425	<input type="checkbox"/> €525
<input type="checkbox"/> Exhibit Space (includes two free registrations)	<input type="checkbox"/> €2,000	<input type="checkbox"/> €2,250

Total Payment:

The registration fee covers the conference literature, technical sessions, abstracts book, 3 hot lunches, and 6 coffee breaks.

➔ **Method of Payment s:**

☐ Visa* ☐ Master Card* ☐ American Express*

Credit Card Number: _____ Expiry Date: _____

Signature: _____

☐ Bank Transfer (Please, contact Redox Technologies for information)

☐ Participants may also pay by cash (on-site registration only)

*Payments by Visa will be converted to \$US while payments by MC or AMEX will be converted to their equivalents in Canadian dollars using the exchange rate of Bank of Canada.

➔ **Please, mail/fax your registration form along with your payment to:**

Redox Technologies, Inc., UWO Research Park, 100 Collip Circle, Suite 110,
London, Ontario N6G 4X8 Canada

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