

## Nanoremediation for Soil and Groundwater Clean-up - Possibilities and Future Trends

### NanoRem Final Conference

Frankfurt am Main, Germany, 21<sup>st</sup> November 2016

The final conference of the EU project NanoRem („Taking Nanotechnological Remediation Processes from Lab Scale to End User Applications for the Restoration of a Clean Environment“, [www.nanorem.eu](http://www.nanorem.eu)) will take place on 21<sup>st</sup> November 2016, as a pre-conference to the DECHEMA Symposium.

The conference titled „Nanoremediation for Soil and Groundwater Cleanup – Possibilities and Future Trends“ presents the most recent developments and opportunities for soil and groundwater remediation by use of different nanoparticles. Project partners expect an intensive exchange of ideas with remediation practitioners.

Participation in the conference is possible independently from the DECHEMA symposium *Strategien zur Sanierung von Boden & Grundwasser 2016*. However, a participation in both events is most welcome. Please use the online registration [www.dechema.de/sanierung16](http://www.dechema.de/sanierung16).

NanoRem is a four year project with 29 partners from 13 countries, coordinated by the University of Stuttgart. It has received funding from the European Union Seventh Framework Programme (FP7/2007-2013) under Grant Agreement n° 309517.

**Date:** 21<sup>st</sup> November 2016

**Venue:** DECHEMA, Haus Frankfurt, Theodor-Heuss-Allee 25,  
60486 Frankfurt am Main, Germany

**Directions:** <http://dechema.de/en/anfahrt.htm>

**Registration:** [www.dechema.de/nanorem2016](http://www.dechema.de/nanorem2016)

**Costs:** 90 € including catering and the NanoRem  
final reception

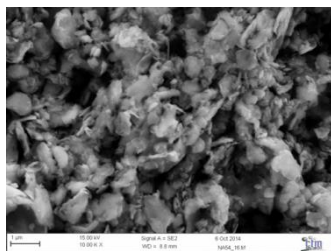


Carbo-Iron®, © A. Künzelmann, UFZ

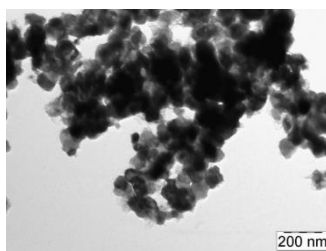


<b>9:30-10:30</b>	<b>Registration</b>
10:30	<b>Welcome</b> - <i>Thomas Track, DECHEMA</i>
	<b>What's behind nanoremediation - technique, particles, ...</b> <i>Chair: Rolf Gerhardt, Project Advisory Group (PAG), DB AG, Germany</i>
10:45	<b>NanoRem in a nutshell</b> <i>Hans-Peter Koschitzky, VEGAS University of Stuttgart, Germany</i>
11:10	<b>nZVI: design, performance and application possibilities</b> <i>Miroslav Cernik, Technical University of Liberec, Czech Republic</i>
11:35	<b>non ZVI: design, performance and application possibilities</b> <i>Katrin Mackenzie, Helmholtz Centre for Environmental Research UFZ Leipzig, Germany</i>
12:00	<b>Subsurface nanoparticle transport</b> <i>Thilo Hofmann, University of Vienna, Austria</i>
<b>12:25</b>	<b>Lunch</b>
	<b>Field application of nanoremediation tools and lessons learned from NanoRem</b> <i>Chair: Paul Bardos, R3 Ltd, Great Britain</i>
13:30	<b>Large scale experiments: performance, upscaling and lessons learned for application in the field</b> <i>Kumiko Miyajima, VEGAS University of Stuttgart, Germany</i>
13:55	<b>Nanoremediation - a consultant's perspective</b> <i>Petr Kvapil, Aquatest, Czech Republic</i>
14:20	<b>Nanoremediation - a site owner's perspective</b> <i>Pierre Matz, Solvay Belgium</i>
14:45	<b>Where will our nanoparticles go? Numerical modeling of nanoparticles transport</b> <i>Pauline van Gaans, Deltares, The Netherlands and Tiziana Tosco, Polito, Italy</i>
15:00	<b>Where are our nanoparticles? At site and in-situ monitoring</b> <i>Deborah Oughton, Norwegian University of Life Sciences, Norway</i>
<b>15:15</b>	<b>Coffee break</b>
	<i>Continued on next page</i>

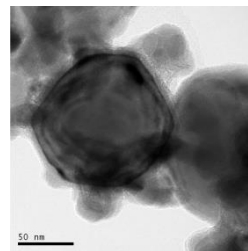
	<b>Operating windows and recommendations from NanoRem</b> <i>Chair: Hans-Peter Koschitzky, VEGAS University of Stuttgart, Germany</i>
15:45	<b>Generalized guideline for nanoremediation application</b> <i>Jürgen Braun, VEGAS University of Stuttgart, Germany</i>
16:15	<b>Safe application of nanoremediation</b> <i>Paul Nathanail, LQM, Land Quality Management Ltd, Great Britain</i>
16:35	<b>Panel discussion: Possibilities and future trends of nanoremediation</b> <i>Chair: Paul Nathanail, LQM, Great Britain</i>  Participants: <ul style="list-style-type: none"> <li>• Paul Bardos (R3 Environmental Technology Ltd, Great Britain)</li> <li>• Harald Burmeier (ITVA, Ingenieurtechnischer Verband für Altlastenmanagement e.V., Germany)</li> <li>• Rolf Gerhardt (Deutsche Bahn AG, Germany)</li> <li>• Thomas Held (ARCADIS GmbH, Germany)</li> <li>• Dietmar Müller-Grabherr (EEA, Environment Agency Austria and COMMON FORUM, EU)</li> </ul>
17:15	<b>Closing remarks</b> <i>Hans-Peter Koschitzky, VEGAS University of Stuttgart, Germany</i>
17:20 – 20:00	<b>Poster session and NanoRem final reception</b>



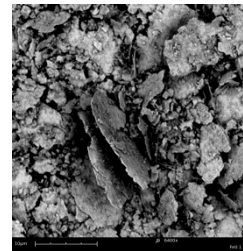
Abrasive Milling nZVI particles, © CTM



nZVI particles, © UPOL



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Milled nZVI particles, © UVR-FIA



Taking **Nanotechnological Remediation Processes** from Lab Scale to End User Applications for the Restoration of a Clean Environment

