## UMH VII - UMREG 2014 Program Overview

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tr>
<td>Sunday</td>
<td>10:00 - 17:00</td>
<td>Groundwater Modeling for mine sites workshop</td>
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<td>18:00</td>
<td>Ice-breaker party</td>
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<tr>
<td>Monday</td>
<td>08:30 - 12:00</td>
<td>Opening ceremony and Plenum talks</td>
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<td></td>
<td>13:00 - 18:00</td>
<td>Parallel session</td>
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<td>18:00 - 20:00</td>
<td>Poster session</td>
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<td>Tuesday</td>
<td>08:30 - 19:00</td>
<td>Parallel session</td>
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<td>Conference dinner</td>
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<td>Wednesday</td>
<td>08:30 - 18:00</td>
<td>Parallel session</td>
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<td>UMREG session</td>
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<tr>
<td>Thursday</td>
<td>10:00 - 17:00</td>
<td>Field trip, PHAST PhreeqC Workshop</td>
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<td>PHAST PhreeqC Workshop</td>
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**Note:**
- Registration from 16:00 on Sunday.
- Registration from 08:30 on Monday.
- Registration from 08:30 on Tuesday.
- Registration from 08:30 on Wednesday.
- Registration from 10:00 on Thursday.

### Details

**Uranium Mining and Hydrogeology 2014 International Conference and UMREG 2014 Program**

**Location:** Freiberg, Germany

**Website:** [www.tu-freiberg.de/umh-vii-2014](http://www.tu-freiberg.de/umh-vii-2014)
### Conference Secretariat
Leipziger Straße 29, Clement-Winkler-Bau (1st floor), 09596 Freiberg, Germany

**Opening Hours:**
- **Sunday, 21st September 2014:** 16:00 - 20:00
- **Monday, 22nd September, 2014:** 08:00 - 20:00
- **Tuesday, 23rd September, 2014:** 08:00 - 18:00
- **Wednesday, 24th September, 2014:** 08:00 - 18:00
- **Thursday, 25th September, 2014:** 07:30 - 09:00

### Contacts: (only during the conference)
- **Telephone:** 03731-392300 and 03731-392301
- **Fax:** 03731-393673
- **Email:** umh@geo.tu-freiberg.de

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### Uranium Mining and Hydrogeology 2014 International Conference and UMREG 2014 Program

#### Sunday, September 21st
- **10:00 - 17:00**
  - **Workshop:** Groundwater Modeling for mine sites
  - **Registration from 16:00**
- **18:00 - 20:00**
  - **Ice Breaker Party**

#### Monday, September 22nd
- **Lecture Hall WIN-1005**
- **9:00**
  - **Opening Ceremony**
- **9:05**
  - **Vice rector for research speech**
- **9:10**
  - **Dean of Faculty Geoscience, Geoengineering and Mining**
- **9:15**
  - **Saxon State Ministry of Environment and Agriculture Representative**
- **9:20**
  - **Representative of IAEA speech**
  - **1. Plenary Talk Helmut Mischo: Uranium boom in Namibia**
  - **2. Plenary Talk Peter Woods: IAEA initiatives supporting good practice in uranium mining worldwide**
- **10:00**
  - **Coffee Break**
- **11:00**
  - **1. Plenary Talk Jordi Bruno: The development and use of hydrogeochemical models for the management of uranium cycle legacies**
  - **4. Plenary Talk Bernd Lottermoser: Rare earth elements in Australian uranium deposits**
- **11:30**
  - **Lunch Break**

### Lecture Hall WIN-1005
- **Leipziger Str. 29, Winkler-Bau (1st floor), 09596 Freiberg**

### Lecture Hall WIN-2258
- **Leipziger Str. 23, Gellert-Bau (ground floor), 09596 Freiberg, Germany**

### Lecture Hall GEL-0001
- **Leipziger Str. 23, Gellert-Bau (ground floor), 09596 Freiberg, Germany**

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### Session I: Uranium mining (Lecture Hall WIN-1005)
- **Chair Person:** Peter Waggit

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>13:00</td>
<td>Woods Peter</td>
<td>Hydrogeological testing for ISL uranium mining: some Australian experience</td>
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<tr>
<td>13:20</td>
<td>Vance Robert</td>
<td>Managing environmental and health impacts of uranium mining</td>
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<tr>
<td>13:40</td>
<td>Waggit Peter</td>
<td>Uranium, rare earths and norm: mining and current prospects in Australia’s northern territory</td>
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<tr>
<td>14:00</td>
<td>Carvalho Fernando</td>
<td>Radiation exposure and environmental remediation at the Urgeirica mine site, Portugal</td>
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### Session III: Cleaning up technologies for water and soil (Lecture Hall WIN-2258)
- **Chair Person:** Donald Metzler

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<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>13:00</td>
<td>Brugge Doug</td>
<td>The externalized costs of uranium mining in the US</td>
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<tr>
<td>13:20</td>
<td>Burow Katja</td>
<td>Microbial consortia in radionuclide-rich groundwater</td>
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<td>13:40</td>
<td>Coetzee Henk</td>
<td>Flooding of the underground mine workings of the old Witwatersrand gold/uranium mining areas: acid mine drainage generation and long term options for water quality management</td>
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<td>14:00</td>
<td>Flesch Klaus</td>
<td>Assessment of the success of rehabilitation at remediated waste rock piles of the former uranium mining from the supervisory authority perspective by the example of the Schlema-Alberoda (Germany)</td>
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<td>14:20</td>
<td>Djenbaev</td>
<td>Modern hydrochemical condition of river Mailuu-Suu and environmental problems of the Fergana Valley</td>
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<td>14:40</td>
<td>Falck</td>
<td>Social licensing and stakeholder communication in uranium exploration and mining</td>
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<td>15:00</td>
<td>Winde</td>
<td>Virtual geographical environments (VGE) as tool to map human exposure to mining-related radionuclides and selecting sampling populations in epidemiological studies</td>
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<tr>
<td>15:20</td>
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<td>Coffee Break</td>
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<tr>
<td>15:40</td>
<td>Ospanova</td>
<td>Uranium mining and processing in Kazakhstan</td>
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<tr>
<td>16:00</td>
<td>Märten</td>
<td>Optimization of uranium in-situ recovery based on advanced geophysical surveying and borehole logging technologies</td>
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<td>16:20</td>
<td>Falck</td>
<td>Social licensing in uranium mining: empowering stakeholders through information</td>
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<tr>
<td>16:40</td>
<td>Schmidt</td>
<td>Does wind energy production cause more radioactive doses than nuclear power plants?</td>
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<tr>
<td>17:00</td>
<td>Schnug</td>
<td>Uranium in phosphate fertilizers – review and outlook</td>
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<td>17:20</td>
<td>Sjöberg</td>
<td>Release of uranium from weathered black shale in meso-scale reactor systems – first year of data</td>
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<td>17:40</td>
<td>Perez Sanchez</td>
<td>Fuzzy MDCAS for the remediation of uranium tailings</td>
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<td>18:00</td>
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<td>Poster Session</td>
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<tr>
<td>Time</td>
<td>Session I: Uranium mining (Lecture Hall WIN-1005)</td>
<td>Session III: Cleaning up technologies for water and soil (Lecture Hall WIN-2258)</td>
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<tr>
<td>8:30</td>
<td>Uralbekov Bolat</td>
<td>Heavy metals and natural radionuclides in the Syr Daria river water (Kazakhstan)</td>
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<td>8:50</td>
<td>Vakanjac Boris</td>
<td>Establishment of a data base of uranium anomalies and zones in Mongolia</td>
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<td>9:10</td>
<td>Scholtz Nico</td>
<td>Uranium mining and exploration in the Namib desert, Namibia</td>
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<tr>
<td>9:30</td>
<td>Beaugelin-Seiller Karine</td>
<td>Is enough information available to derive an overall EQS for uranium in French freshwaters according to European Guidance</td>
</tr>
<tr>
<td>10:10</td>
<td>Winde Frank</td>
<td>Assessing risks associated with rising uraniumiferous mine water on underground infrastructure and water resources in and around Johannesburg (South Africa)</td>
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<tr>
<td>10:30 - 10:50</td>
<td>Coffee Break</td>
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<tr>
<td>10:50</td>
<td>Phrommavanh Vannapha</td>
<td>Characterizing lake sediments downstream from former uranium and metals mines</td>
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<tr>
<td>11:10</td>
<td>Torgoev Isakbek</td>
<td>Environmental issues and possibilities of remediation of the abandoned U-Zn-Pb mining wastes in the</td>
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<tr>
<td>11:30</td>
<td>Bäckström Mattias</td>
<td>Uranium leaching from a burning large black shale waste deposit – present conditions and future scenarios</td>
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<tr>
<td>11:50</td>
<td>Zhang Vwei</td>
<td>Remediation of a uranium geological exploration facility</td>
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<tr>
<td>12:10</td>
<td>Banzi Firmi</td>
<td>Challenging issues in regulating uranium mining in Tanzania</td>
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<td>12:30</td>
<td>Winde Frank</td>
<td>Revisiting a south African case study on uranium exposure linked to leukemia – preliminary results</td>
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<td>12:50 - 14:00</td>
<td>Lunch Break</td>
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<td>Time</td>
<td>Session I: Uranium mining (Lecture Hall WIN-1005)</td>
<td>Session II: Uranium and phosphates (Lecture Hall WIN-2258)</td>
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<td>14:00</td>
<td>Spasic Jokic Vesna</td>
<td>Karlsson Stefan</td>
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<td>Canbaz ÖZTÜRK Buket</td>
<td>Mestan Jan</td>
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<td>14:40</td>
<td>Kreyßig Elke</td>
<td>Nair Sreekesh</td>
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<td>15:00</td>
<td>Ladislav Tomasek</td>
<td>Papageorgiou Fani</td>
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<td>15:20</td>
<td>Khan Amir Hassan</td>
<td>Schmidt Gerhard</td>
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<td>15:40</td>
<td>Akoteyon Isaiah Sewanu</td>
<td>Shiriaeva Anna</td>
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<td>16:00 - 16:20 Coffee Break</td>
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<td>16:20</td>
<td>Lietsch Corinne</td>
<td>Sporleder Daniela</td>
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<td>16:40</td>
<td>Lagneau Vincent</td>
<td>Fakhi Said</td>
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<td>17:00</td>
<td>Schnug Ewald</td>
<td>Hoyer Mandy</td>
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<td>Arab Alireza</td>
<td>Tzifas Ioannis</td>
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<td>Märten Horst</td>
<td>Mohamed Ahmed Abdallah Samy</td>
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<td>8:30</td>
<td>Blake</td>
<td>Blake Diane: Re-engineering antibodies for optimum performance in uranium sensors</td>
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<td>8:50</td>
<td>Blowes</td>
<td>Blowes David: PRB for treating Sr-90 plume derived from a nuclear waste site and reactive transport modelling of the system</td>
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<td>9:10</td>
<td>Boujrhal</td>
<td>Boujrhal Fatima Zahra: Radon diffusion in rocks and minerals</td>
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<td>9:30</td>
<td>Brown</td>
<td>Brown Paul: Solubility of Radium and Strontium Sulfate across the Temperature Range of 0 to 300°C</td>
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<td>9:50</td>
<td>Coetzee</td>
<td>Coetzee Henk: Cost effective screening of mine waters using accessible field test kits: experience with a high school project in the Wonderfonteinspruit catchment, South Africa</td>
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<tr>
<td>10:10</td>
<td>Dinis</td>
<td>Dinis Maria de Lurdes: Dispersion modelling of natural radionuclides U, Th and K released from coal-fired power plants operations</td>
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<td><strong>10:30 - 10:50 Coffee Break</strong></td>
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<td>10:50</td>
<td>Vidović</td>
<td>Vidović Milka: Hydrogeochemical investigation of the influence of natural radionuclides on the environment, NW Bačka</td>
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<td>11:10</td>
<td>Hurst</td>
<td>Hurst Stefanie: Radium in groundwater – a review</td>
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<td>11:30</td>
<td>Kassahun</td>
<td>Kassahun Andrea: Speciation analysis based design of mine water treatment technologies</td>
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<td>11:50</td>
<td>Knolle</td>
<td>Knolle Friedhart: Uranium implications around the Brocken – Martin Heinrich Klaproth, Nazi atomic research, Wismut prospection and surface water anomalies</td>
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<td>12:10</td>
<td>Suksi</td>
<td>Suksi Juhani: Modelling of u series isotopes disequilibria - presentation of a modelling tool</td>
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<td>12:30</td>
<td>Višňák</td>
<td>Višňák Jakub: UV-VIS spectrophotometric and TRLFS speciation study of UO2(2+) - XO4(2-) - H2O (X = S, Se) system compared with theoretical quantum-chemical calculation</td>
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<td><strong>12:50 - 14:00 Lunch Break</strong></td>
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<td>Chair Person:</td>
<td>Juhani Suski</td>
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<td>14:00</td>
<td>Marusia</td>
<td>Renteria-Villalobos</td>
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<td>Amir Khan (India)</td>
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<td>14:20</td>
<td>Nowak</td>
<td>Jakub</td>
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<td>Faezeh Fatemi (Iran)</td>
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<td>Marilena Cuhutencu</td>
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<td>Perez Sanchez Danyl</td>
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<td>Jakubick, Waggitt, Metzler</td>
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<td>Singh Parminder</td>
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<td>Uralbekov Bolat</td>
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<td>Peter Waggitt</td>
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<td>16:40</td>
<td>Oufni Lhoucine</td>
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<td>Wolkersdorfer Christian</td>
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Thursday  September 25th

10:00 - 17:00   Field trip   Workshop: Hydrogeochemical Modeling with PHAST and PhreeqC

Computers:

For your convenience, there are 2 desktop computers available in the main Foyer of Winkler Bau. General software such as MS Office are available as well. There is also a printer available at the conference desk if you need to print. The conference staff will be able to help you.

Internet

WiFi / Wlan is available in all conference buildings and university premises. There are two possible ways to use it. EUDOROAM and GAST

1- If you or your university are a memebr of EUDOROAM then simply use your own login and password.
2- For GAST connection the password is: days2014