

## Conference Fee

The conference fee includes the participation at the conference presentations, poster sessions and the mid-session workshops including refreshments, the ice breaker party as well as the conference proceedings.

### Full Registration Non-members' Rate

|                                    |      |        |
|------------------------------------|------|--------|
| before July 1 <sup>st</sup> , 2008 | Euro | 200.00 |
| after June 30 <sup>th</sup> , 2008 | Euro | 250.00 |

### Full Registration Members' Rate

|                                    |      |        |
|------------------------------------|------|--------|
| before July 1 <sup>st</sup> , 2008 | Euro | 150.00 |
| after June 30 <sup>th</sup> , 2008 | Euro | 200.00 |

Student Registration Euro 80.00

(incl. conference proceedings)

TUBAF Members' Registration free

(no conference proceedings)

## Sponsorship & Advertising

Corporate Sponsorship Package Euro 2,000.00

Exhibition Booth (10m<sup>2</sup> incl. 1 Person) Euro 250.00

Delegates' Bag Euro 1,000.00

### Advertisement in Conference Proceedings

whole page Euro 250.00

half page Euro 150.00

## Registration

With this announcement a final registration form will be available and it must be filled out by the conference participants. The registration fee should be paid before **July 31<sup>st</sup>, 2008**, after this date a 25% over fee will be applied.

If a fair number of interested people will ask for an accompanying programme, guided cultural tours will be organized at an extra fee.

## Important dates

|           |  |
|-----------|--|
| 30.6.2007 | 1 <sup>st</sup> circular & call for abstracts    |
| 15.1.2008 | submitting abstracts                             |
| 28.2.2008 | notification of acceptance                       |
| 15.3.2008 | 2 <sup>nd</sup> circular & preliminary programme |
| 30.4.2008 | camera ready papers                              |
| 30.6.2008 | end of early bird registration                   |

## UMH V in cooperation with



International Atomic Energy Agency



Saxonian State Ministry of Environment and Agriculture



Saxonian State Authority for Environment and Geology



Forschungszentrum Dresden-Rossendorf



International Association of Hydrogeologists



International Mine Water Association



Partnership for Acid Drainage Remediation in Europe



Geokompetenzzentrum Freiberg e.V.



Deutsche Forschungsgemeinschaft



Fachsektion Hydrogeologie in der Deutschen Gesellschaft für Geowissenschaften



Deutsche Gesellschaft für Geowissenschaften

## About Freiberg

Freiberg is located 240 km south of Berlin, 45 km southwest of Dresden and inspires visitors with an impressive Medieval time city and over 800 years of tradition in silver and metal mining. One of the oldest mining academies was founded here in 1765. Nowadays the Technical University has 4,300 students, thus being an important Geocenter in Germany and Europe.

## Scientific and Organizing Secretariat

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## 1<sup>st</sup> Circular Call for Abstracts



TU Bergakademie Freiberg  
Department for Geology  
Chair of Hydrogeology

Conference Chair  
Broder J. Merkel

INTERNATIONAL  
5<sup>th</sup> CONFERENCE

**URANIUM MINING  
AND HYDROGEOLOGY**

September 14<sup>th</sup> – 18<sup>th</sup>, 2008  
Freiberg, Germany

# Scientific Advisory Committee

|                                 |                                  |
|---------------------------------|----------------------------------|
| Yaduvendra Agrawal, India       | Patrick Landine, Canada          |
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| David Blowes, Canada            | Donald Metzler, USA              |
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| Stoyan N. Groudev, Hungary      | <b>Organizing Committee</b>      |
| Mathias Hübschmann, Germany     | Broder Merkel,                   |
| Stephanie Hurst, Germany        | Conference Chair                 |
| Fred Kamona, Namibia            | Andrea Berger,                   |
| Alexander Kim, Kazakhstan       | Conference Coordination          |

## Conference Objectives

Once again, the Institute for Geology at the TU Bergakademie Freiberg is pleased to invite you to the international conference "UMH V" taking place in Freiberg in September 2008. The UMH V conference will be used as basis of an international forum for discussing uranium related problems in conjunction with protecting and preserving our environment. This conference builds up on the very successful past conferences (UMH I to UMH IV) from 1995 until 2005.

Practitioners, consultants, regulators, policymakers, researchers, scientists, engineers, and students will have numerous opportunities to learn about innovative and emerging scientific advances and technologies, those are needed to address a wide range of uranium mining and mine closure issues associated with environmental aspects such as soil and groundwater protection, mine water treatment technologies and management, environmental impacts of phosphate mining associated with fertilizer production, and technologies for uranium separation.

Key sessions will include mining technologies, reclamation and remediation, regulatory issues, monitoring measures, modeling techniques, biogeochemistry of uranium, and risk assessment studies.

# Conference Topics

## Session I: Uranium Mining

- \* Prospection
- \* In-situ leaching
- \* Active water treatment
- \* Passive water treatment
- \* Radon management
- \* Risk assessment studies

## Session II: Phosphate Mining

- \* Environmental impacts
- \* Fertilizer production and uranium separation

## Session III: Mine Closure and Remediation Processes

- \* Mine flooding
- \* Waste rock piles
- \* Tailings
- \* Phosphate-based stabilization and reactive barrier techniques
- \* Bioremediation/-stabilization
- \* Long-term monitoring of abandoned uranium mining environments

## Session IV: Uranium in Groundwater and in Bedrock

- \* Sorption and migration
- \* Use of uranium isotopes
- \* Uranium speciation in water
- \* Uranium migration in crystalline rock

## Session V: Biogeochemistry of Uranium

- \* Bioavailability (food chain)
- \* Uranium in food
- \* Microbial biogeochemistry of uranium tailings

## Session VI: Environmental behavior

- \* Uranium in nuclear waste repository
- \* Environmental behaviour of depleted uranium
- \* Deposits of depleted uranium
- \* Environmental behaviour of natural uranium decay products
  - \* Radium
  - \* Radon and short life daughter products
  - \*  $^{210}\text{Pb}$  and  $^{210}\text{Po}$
- \* Uranium in coal: Use of fly ash

## Session VII: Modeling

- \* Thermodynamic data
- \* Surface complexation
- \* Kinetically controlled reactions

# Guidelines Papers/Posters

Deadline for submitting an abstract is **January 15<sup>th</sup>, 2008** (maximum 300 words as RTF- or Word-file on disk or e-mail to the conference secretariat or as online abstract submission).

The final papers will consist of a maximum of 10 pages, including tables and figures (important: even page number).

Posters should not exceed 1.20 m height to 0.90 m width.

The formats of the paper and poster presentations will be communicated to the author(s), or be downloaded from the UMH-website.

The author(s) should send the final papers before **April 30<sup>th</sup>, 2008**, early submission is strongly encouraged.

Either the author or co-author of the accepted papers or poster should be enrolled at the conference.

Oral and poster presentations are published in the conference proceedings. The conference language is English. No translation will be provided at the conference.

Talks will presented in **20 minutes oral presentations** plus 5 minutes for discussion.

## Preliminary Programme

|                |           |  |
|----------------|-----------|--|
| Sept. 15, 2008 | 0900-0930 | Opening Ceremony                       |
|                | 0930-1200 | Plenary Session                        |
|                | 1200-1330 | Lunch                                  |
|                | 1330-1600 | I.1 Parallel Session                   |
|                | 1600-1630 | Coffee Break                           |
|                | 1630-1900 | I.2 Parallel Session                   |
| Sept. 16, 2008 | 2000-     | Barbecue                               |
|                | 0830-1030 | II.1 Parallel Session                  |
|                | 1030-1100 | Coffee Break                           |
|                | 1100-1230 | II.2 Parallel Session                  |
|                | 1230-1330 | Lunch                                  |
|                | 1330-1600 | II.3 Parallel Session                  |
| Sept. 17, 2008 | 1600-1630 | Coffee Break                           |
|                | 1630-1900 | II.4 Parallel Session                  |
|                | 2000-     | Poster Session                         |
|                | 0830-1030 | III.1 Parallel Session                 |
|                | 1030-1100 | Coffee Break                           |
|                | 1100-1230 | III.2 Parallel Session                 |
| Sept. 17, 2008 | 1230-1330 | Lunch                                  |
|                | 1400-1600 | Workshops                              |
|                | 1600-1800 | Plenary Discussions, End of Conference |