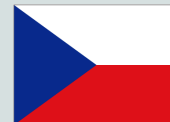
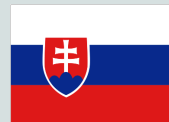


# INTERNATIONAL CONFERENCE

# CONTAMINATED SITES

## BRATISLAVA 2010



### MAIN TOPICS:

- I. Strategies, Methodologies, New EU and Member States Legislation
- II. Priority Chemicals, Persistent Organic Pollutants, Investigation / Science / Development
- III. Clean-up Applications, Local and Regional Solutions

## 2-4 JUNE 2010

### CONFERENCE VENUE:

State Geological Institute  
of Dionýz Štúr

Mlynská dolina 1, Bratislava 817 04  
Slovak Republic

e-mail: [igor.slaninka@geology.sk](mailto:igor.slaninka@geology.sk)

### CONFERENCE ORGANIZERS:



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Bratislava s.r.o.

Tomášikova 10/F, 821 03 Bratislava  
Slovak Republic

Tel./Fax: +421 245 943 712 / 945 223

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Service for the Future

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Photo: RNDr. Tomáš Lánczos

### UNDER THE AUSPICES OF:



MINISTRY OF THE ENVIRONMENT  
OF THE SLOVAK REPUBLIC



Ministry of the Environment  
of the Czech Republic

MINISTRY OF THE ENVIRONMENT  
OF THE CZECH REPUBLIC

### IN COOPERATION WITH:

UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION

SLOVAK ENVIRONMENTAL AGENCY

STATE GEOLOGICAL INSTITUTE OF DIONYZ ŠTÚR

SOIL SCIENCE AND CONSERVATION RESEARCH INSTITUTE

COMENIUS UNIVERSITY IN BRATISLAVA  
FACULTY OF NATURAL SCIENCES

SLOVAK TECHNICAL UNIVERSITY  
FACULTY OF CHEMICAL AND FOOD TECHNOLOGY



# Conference CONTAMINATED SITES

BRATISLAVA 2010, JUNE 2-4

FIRST CIRCULAR

International Conference "Contaminated sites Bratislava 2010" will be held on

**June 2-4, 2010 in Bratislava, Slovak Republic.**

The conference is organized under the auspices of the **Ministry of the Environment of the Slovak Republic** & the **Ministry of the Environment of the Czech Republic.**

The conference has an ambition to facilitate the exchange of information and perspectives of leading experts and decision makers from various countries and areas of interest as well as scientific and research community, industry and service providers.

Contaminated Sites:

- and their impact on soil, ground & surface water, and air contamination
- in the scope of the European Union, its individual member states as well as other countries worldwide
- legislation under preparation, strategies and future development

## THEMES & KEY AREAS

*Day I.*

### Legislation / Strategies / Methodologies

- Existing and Prospective Strategies for Contaminated Sites
- Legislation and Policy of the EU and Select Member States
- Inventories / Methodologies
- Competence / Liability
- Financing

*Day II.*

### Priority Chemicals / Persistent Organic Pollutants Investigation / Science / Development

- Research / Survey / Mapping
- Modeling / Evaluation of Contamination of Soil / Water / Air
- Toxic Effects on Ecosystems and Human Health
- Destruction / Remediation Technologies / Biotechnologies

*Day III.*

### Clean-up applications – local and regional solutions

- Contamination is here – what next? Development of Projects and Their Implementation
- Clean-up Requirements and Options
- Treatment of Local Contamination
- Large Scale Contamination
- Communication to Public

## PROGRAMME COMMITTEE

- **RNDr. Vlasta Jánová, PhD.**  
Ministry of the Environment of the Slovak Republic
- **Assoc. Prof. Ing. Katarína Dercová, PhD.**  
Slovak University of Technology
- **RNDr. Igor Slaninka, PhD.**  
State Geological Institute of Dionýz Štúr (Slovak Republic)
- **Prof. RNDr. Pavol Bielek, DrSc.**  
Soil Science and Conservation Research Institute (Slovak Republic)
- **Prof. Ing. Bohdan Juráni, CSc.**  
Comenius University in Bratislava (Slovak Republic)
- **Mohamed Eisa, PhD.**  
United Nations Industrial Development Organization
- **RNDr. Lubomír Procházka**  
GEOTest Brno (Czech Republic)
- **PaedDr. Martin Murín**  
Ecotoxicology Centre Bratislava (Slovak Republic)
- **Doc. RNDr. Ján Čurlík, DrSc.**  
Comenius University in Bratislava (Slovak Republic)

## ORGANIZING COMMITTEE

- **Dr. Carmela Centeno**  
United Nations Industrial Development Organization
- **Ing. Katarína Paluchová**  
Slovak Environmental Agency
- **RNDr. Václav Mazura**  
.A.S.A., spol s r.o. (Czech Republic)
- **Ing. Jan Hillerman, PhD.**  
GEOTest Brno (Czech Republic)
- **RNDr. Roman Hangáč**  
Ministry of the Environment of the Slovak Republic
- **Jakub Novák, B.A.**  
Ecotoxicology Centre Bratislava (Slovak Republic)

## CONTRIBUTIONS AND CALL FOR ABSTRACTS

The Conference Organizing Committee (COC) starts to accept lecture proposals and poster abstracts from all interested presenters. The COC will evaluate the submitted abstracts and lecture proposals. The authors will be informed in advance concerning the decision of the Conference Organizing Committee regarding their selection.

**One-page abstract should be submitted electronically no later than 16.04.2010 at [conference@ekotox.sk](mailto:conference@ekotox.sk)**

The Conference Programme Committee (CPC) is to make the final decision by 30.04.2010. Please make sure to provide correctly written primary e-mail address when submitting the lecture/poster proposal.

**! Notifications regarding the selection will be sent by e-mail only !**

The scientific program includes plenary sessions, invited key lectures, organized discussions, and poster sessions. Due to expectation of large attendance at the meeting and limited time for oral presentations, the poster presentations are strongly encouraged.

## INSTRUCTIONS FOR PRESENTERS

The working language of the Conference is English & Slovak. All abstracts and lectures are to be submitted in comprehensible English; otherwise they will not be accepted. Simultaneous translation from Slovak to English, and vice versa, will be provided.

### FEES

Presenters at the conference have to pay their own travel expenses. Presenters are also required to pay the applicable registration fees. A reduction on the early registration fee is offered. The registration fee for authors who will be presenting is due on 30.04.2010 upon a confirmation of selection from the Conference Organizing Committee (COC). In case the registration fee is not paid in full before the aforementioned date, the abstract will not be included in the final Conference Programme & Book of Abstracts. The presenting authors are strongly encouraged to contact our office at [conference@ekotox.sk](mailto:conference@ekotox.sk) before submitting their presentation proposals/abstracts.

### CONFERENCE FEE

The registration fee includes the access to plenary lectures, conference proceedings and conference book of abstracts, refreshments during the conference as well as an evening session by glass of wine held on Thursday evening, June 3<sup>rd</sup> 2010.

<b>Early registration:</b>	<b>220,- EUR</b>
<b>3 Days:</b>	<b>275,- EUR</b>

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<b>2 Days:</b>	<b>240,- EUR</b>
<b>1 Day:</b>	<b>180,- EUR</b>
<b>Field Trip</b>	<b>10,- EUR</b>

### CRITERIA FOR SELECTION OF ABSTRACTS

The Conference Programme Committee (CPC) will review all abstracts and make selections based on content, objectives, relevance to the conference themes, etc. The deadline for abstract submissions is 16.04.2010. Everyone submitting an abstract will receive notification of the CPC's decision no later than 30.04.2010. When submitting an abstract, please indicate whether your abstract should be considered for an oral or poster presentation. Submit your abstract early to ensure prompt confirmation and processing.

### ABSTRACT FORMAT

The purpose of the abstract is to define the precise subject of the presentation to an audience. Font must be *Times New Roman*, size 11 point. All typing should be *single-spaced*. *Title, Author's name(s), Affiliation (institution, city, and country)* and presenter's e-mail address should all be centered, and the body of the abstract should be *full justified*. The *Title* must be in bold text. Please underline the *name* of the presenting author. Leave one blank line between the presenting author's e-mail address and the beginning of the body of abstract. A new line may be used for each paragraph in the body of the abstract. All margins (top, bottom, left and right) must be set to 2.5 cm.

### PRESENTATIONS

The Conference Programme Committee invites those who wish to contribute to the conference to submit an abstract. Duration of oral presentations should be 15 minutes + 5 minutes for discussion. However, due to on-going registration for the Conference,

organizers reserve a right to make changes in order to fit in the total number of speakers. All oral presentations are to use MS Power Point presentation format (.ppt). Laptop computers and projectors along with screens will be available in the conference room. Please bring your presentation to the Conference either on a CD or USB stick drive (no exceptions). Presentations should be loaded onto the DEDICATED PC at least one hour before the start of the Conference. Due to time constraints, no presenter will be allowed to connect his/her laptop to the session projector. The computer platform for projecting PowerPoint presentations is the MS Windows. Mac users are advised to trial run their presentations on the Windows OS-based MS PowerPoint, or to convert their presentations first to ensure compatibility.

## POSTER PRESENTATIONS

The Conference Programme Committee (CPC) will be selecting poster presentation abstracts for the Conference Poster Session. Presenters are kindly asked to bring (or send in advance) posters, if possible. Posters will be on display during the days of conference on poster boards. Each poster should be 90 cm width x 120 cm height or smaller. Tacks will be available. You are responsible for any other special poster mounting needs that you may require. Posters must be set up an hour before start of the Conference (02.06.2010). Organizers will communicate the poster place numbers to presenters via e-mail. Please find the number assigned to your poster in the Conference Program author index and make sure your poster is put up at its designated place. Misplaced posters will be taken down by the organizers. Using staples, glue, tape, or nails to attach the poster on the walls is NOT allowed.

## PROCEEDINGS

Authors of selected poster & oral presentations interested in presenting their scientific contribution in the Conference Proceedings will be invited to submit a paper (*limited to 7 pages, single spaced, and 12-font*) for publication in a collective volume. Proceedings covering the lectures will be provided for each Conference attendee. The Conference Book of Abstracts will also be officially published and given to the attendees. Abstracts or extended abstracts are submitted by authors of the plenary lectures and posters. Organizations and other participants interested in advertising in the Proceedings are allowed to send their materials to the conference secretariat at [conference@ekotox.sk](mailto:conference@ekotox.sk). Further detailed information will be discussed with the participants on individual basis.

## OPTIONAL FIELD TRIP

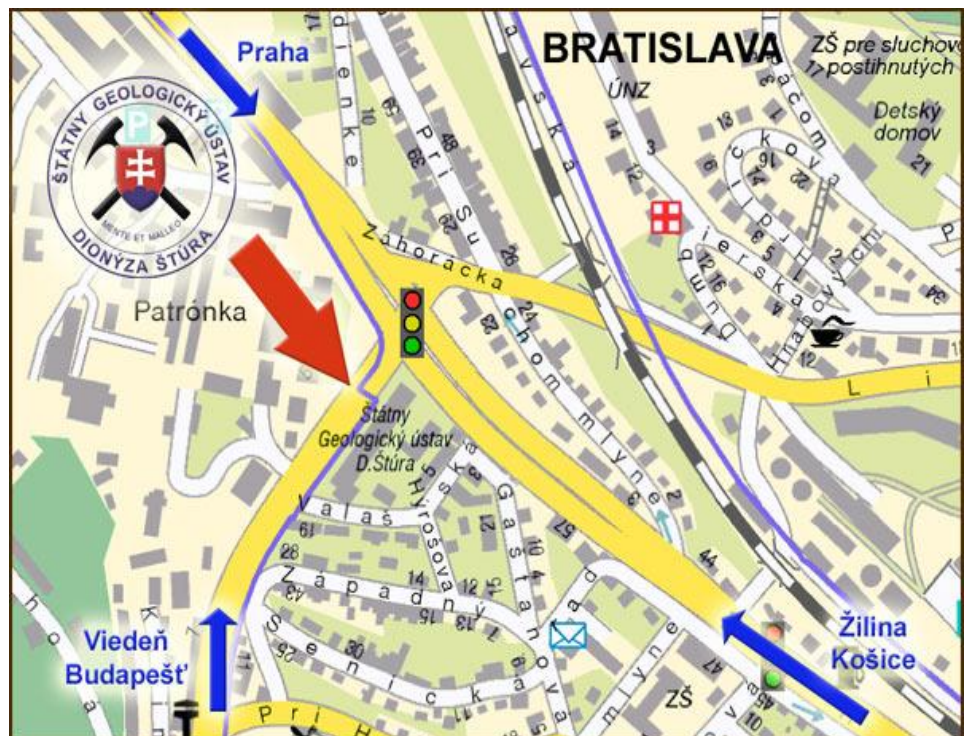
The field trip is going to take place on June 1<sup>st</sup> 2010, which is the day before the first day of Conference. The field trip involves a visit of nearby Devin Castle & geologically and archeological very significant site of Sandberg. The trip attendees will be picked up in front of the Conference Venue – the State Geology Institute of Dionyz Stur and transported first to the site of Sandberg, followed by a visit to Devin Castle, from where the attendees will embark on a river ship which will take them to Bratislava – City Centre. For more information & to receive the Field Trip booklet, please contact the conference secretariat at [conference@ekotox.sk](mailto:conference@ekotox.sk).

## TRAVEL INFORMATION

**Conference Venue:**  
State Geology Institute  
of Dionyz Stur

**Address:**  
Mlynská dolina 1  
Bratislava, Slovak Republic

**Web:** [www.geology.sk](http://www.geology.sk)  
**e-mail:** [conference@ekotox.sk](mailto:conference@ekotox.sk)



## PUBLIC TRANSPORTATION

### → From Central Railway station

- Line (Bus) No. 32 – toward “Pri suchom mlyne” bus stop
- Line (Trolleybus) No. 204 – toward “Valašská” bus stop

### → From Central Bus station

- Line (Bus) No. 21, 25 – toward “Patrónka” bus stop

### → From New bridge

- Line (Bus) No. 37, 30 – toward “Patrónka” bus stop

More information on public transportation in Bratislava: <http://www.imhd.sk/ba/index.php?w=3825242e29ef2f302523ea&lang=en>

## NEAREST AIRPORTS

**BTS - Bratislava Airport** (9 km north-east from the Bratislava - City Centre)

Daily bus connection from the Bratislava Airport toward the Central Railway Station is provided by the line **No. 61**  
<http://www.letiskobratislava.sk/17/30.htm>

**VIE - Vienna International Airport** (45 km from Bratislava)

Simple bus connection directly between Vienna Airport and Bratislava-City Centre is provided by **Terravision Airport Coach** or **Blaguss Slovakia**. Bus stop on Vienna Airport for departures and arrivals is located in front of the Terminal 2 departure hall, while the bus stop in Bratislava-City Centre is located under the New Bridge (look for sign “Nový most”) - bus stop for line **No. 37, 30**.

[http://www.blaguss.sk/ba\\_wien.php](http://www.blaguss.sk/ba_wien.php)

<http://www.terravision.eu>

**We recommend making an early reservation for flights to Bratislava or Vienna operated by low cost airlines.**

For More Information: <http://www.bratislavaslovakia.com/>

Visa/Customs information when entering the Slovak Republic: [www.mzv.sk](http://www.mzv.sk)

## Important Deadlines

<b>Deadline for submissions:</b>	<b>16. April 2010</b>
<b>CPC’s author selection notification by:</b>	<b>30. April 2010</b>
<b>Deadline for early registrations:</b>	<b>30. April 2010</b>
<b>Sending texts for proceedings by:</b>	<b>14. May 2010</b>
<b>Advertising in proceedings:</b>	<b>14. May 2010</b>

## Preliminary Conference Program

1.6.2010	.....	13:30 – 18:00	.....	Field Trip
2.6.2010	.....	8.00 – 9.00	.....	Registration
2.6.2010	.....	9.00 – 16.00	.....	Plenary sessions & Poster sessions
3.6.2010	.....	9.00 – 17.00	.....	Plenary sessions & Poster sessions
3.6.2010	.....	17.00 – 20.00	.....	Social Program
4.6.2010	.....	9.00 – 14.00	.....	Plenary sessions
4.6.2010	.....	14.00	.....	Conference Closure

# REGISTRATION FORM

**Contaminated Sites Bratislava 2010; 2.-4. June 2010, Bratislava, Slovakia**

Please fill the registration form and send by Fax or e-mail to

Conference Secretariat: Jakub Novák, B.A.

Ekotoxikologické centrum Bratislava s.r.o., Tomášikova 10/F, 821 03 Bratislava, Slovak Republic

Tel: +421 2 4594 3712, Fax: +421 2 4594 5223

e-mail: [conference@ekotox.sk](mailto:conference@ekotox.sk)

<b>Name</b>			
<b>Organization</b>			
<b>Mailing Address</b>			
<b>Tel.</b>		<b>Fax</b>	
<b>e-mail/Skype</b>			
<b>I will be submitting:</b>	Lecture		Advert. in the Proceedings
	Poster Presentation		Leaflets presentation
	Proceeding Contribution		Participant only
<b>I will participate in:</b>	Field Trip		
<b>Title of Lecture / Poster/ Contribution</b>			
<b>Registration Fees – Includes Conference Proceedings, Documentation, Refreshments and Lunch</b>			
<b>Early registration</b> <small>Book before 30.04.2010</small>	<small>Variable Code</small> <b>0204060</b>	<b>220,- EUR</b>	<p><b>* Bank Transfer Payment *</b></p> <p><b>Bank Details:</b> Tatra banka a.s., Vajanského nábrežie 5, Bratislava, Slovak Republic</p> <p><b>BIC/Swift Code: TATR SK BX</b></p> <p><b>IBAN: SK 21 1100 0000 0026 21 00 2788</b></p> <p><b>Variable Code: 020406x</b></p>
<b>3 Day</b>	<small>Variable Code</small> <b>0204063</b>	<b>275,- EUR</b>	
<b>2 Day</b>	<small>Variable Code</small> <b>0204062</b>	<b>220,- EUR</b>	
<b>1 Day</b>	<small>Variable Code</small> <b>0204061</b>	<b>165,- EUR</b>	
<b>Field Trip</b> <small>Takes place on 01.06.2010</small>	<b>YES / NO</b>	<b>10,- EUR</b>	
<b>Your Payment</b>			

**! The number of places for participants is limited. Registrations will be accepted on a first-come-first-served basis !**

**! Conference fee should be paid via bank transfer only !**

# Conference „Contaminated Sites Bratislava 2010“

## Field Trip

**When:** 01.06.2010 - Tuesday

### **Programme:**

1. Bus departs the State Geology Institute of Dionyz Stur for Sandberg **13:30**
2. Visit to Sandberg **14:00 – 15:00**
3. Visit to Devín Castle **15:30 – 17:00**
4. River boat leaves the Devín Castle for Bratislava – City Centre **18:00**
5. Expected arrival in Bratislava – City Centre **18:30 – 19:00**

### Map:



Sandberg



Devín Castle



# Sandberg



Sandberg, also known as Devínska Kobyla is the westernmost tip of Devín Carpathians. Sandberg is geologically and archeologically unique remnant of prehistoric sea cliff dating back more than 14 million years ago. Sandberg is a world famous Neogene fossil site; found here are more than 300 species of fossil organisms. The sea, in which these fossilized animals lived, was spreading over the region about 16 to 14 million years ago. Over the time, as the prehistoric sea declined, Sandberg changed from a seabed into beach, and later on it became a sea cliff. In Sandberg, you could find holes 1 cm in diameter left here by molluscs (*genus Lithodomus*) who dwelled in the prehistoric sea bed. The Mesozoic limestones were further eroded by *Polydora* worms and *Vioa* sponges. Rare are findings of urchins (*genus Scutella*), but the *Bryozoans* and *Foraminiferas* are quite common. The sea also contained some larger animals as it is evidenced by shark teeth, fish & seal skeletons, and even whale vertebra of *Mesocetus hungaricus* (Kadič). It is estimated that the sea was about 60 meters in depth with normal salinity of 3.5%. Sandberg and its surrounding hills (especially its northern slopes) became eroded over time by nearby rivers, which caused many remains of large terrestrial vertebrates like rhinoceroses, antelopes, and canines to be washed out. Found here are also remains of giant proboscidea like *Mastodon* and *Deinoteria*. Very significant are also findings of fragments of monkey *Pliopithecus antigus* (Gervais) and antropoid monkey *Sivapithecus Darwin* (Abel); these are found to be the ancestors of today's Gibon monkeys, forming the link between apes and monkeys. The most precious finding is the *Dryopiteka* teeth, which is categorized as predecessor of today's great apes (chimpanzee, gorilla, orangutan). The soil composition of Sandberg is made up of sand, sandstone, litotamnic, lumachellic, sandy claystone, sandy limestone and breccia soils .



## Devín Castle

Devín Castle (Slovak: hrad Devín or Devínsky hrad, Hungarian: Dévény) is a castle in Devín, which is a part of Bratislava, the capital of Slovakia. Thanks to its strategic position, the cliff (altitude of 212 meters) at the confluence of Danube and Morava rivers was an ideal place for fortification. Devín's strategic location allowed for control over the important trade route along Danube river as well as one branch of the Amber Road; that is why the site has been settled since the Neolithic and fortified since the Bronze Age. Later, both the Celts and the Romans built strong fortresses there. In the Roman ruins, the first Christian church to be found North of Danube was identified. A Slavic castle, founded there in the 8th century, played a crucial role during frequent wars between the Great Moravian and Frankish empires. The claims that Devín or neighboring Bratislava was the center of Samo's Empire cannot be proven, but the ancient name of the castle (Dowina - from the Slavic/Slovak word deva for girl) was mentioned for the first time in written resources in 864 AD, when Louis the German besieged Prince Rastislav in the "castle of Dowina". During the Great Moravian period, a Christian church had been built in the complex. Its distinct style was probably inspired by similar churches in Byzantine Macedonia, from where Saints Cyril and Methodius came to Great Moravia. Chemical composition of frescoes indicates that the church was decorated by Italian painters. In the 13th century, a stone medieval castle was built to protect the western frontier of the Hungarian Kingdom and a reference to "castelanus de Devín" appeared in 1320 AD. A palace building was added to the fortress in the 15th century. Castle's fortification was further reinforced during invasion of Ottoman Turks into the region of Central Europe. In 1809 AD, the castle was destroyed by Napoleon I of France. Since the 19th century, Devín had become an important national symbol for the Slovaks. The Devín Castle was featured on the 50 Halier coin of the Slovak currency. The Hungarians regarded it as the western gateway to the Kingdom of Hungary. Its history even inspired several Romantic poets, followers of Ľudovít Štúr. The Hungarian poet Endre Ady used Devín as a symbol of modernism and Westernization in his poem "Góg and Magóg". Some parts of the castle have been reconstructed in the 20th century.

