

# Programme of EnviroInfo 2005

**EnviroInfo**  
Brno 2005



**19th International  
Conference**

# Schedule of EnviroInfo 2005

Tuesday 6/9/2005

|       |  |                     |                  |
|-------|--|---------------------|------------------|
| 8:00  |  |                     |                  |
| 8:30  |  |                     |                  |
| 9:00  |  |                     |                  |
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| 13:00 |  |                     |                  |
| 13:30 |  |                     |                  |
| 14:00 |  | <b>Registration</b> | <b>Tutorials</b> |
| 14:30 |  | (Reception)         | (CBA)            |
| 15:00 |  |                     | L.Dušek          |
| 15:30 |  |                     | I.Holoubek       |
| 16:00 |  |                     | J.Hřebíček       |
| 16:30 |  |                     | J.Jarkovký       |
| 17:00 |  |                     | J.Mužík          |
| 17:30 |  |                     | R.Šmíd, P.Pavliš |
| 18:00 |  |                     |                  |
| 18:30 |  |                     |                  |
| 19:00 |  | <b>Dinner of PC</b> |                  |
| 19:30 |  | (Longue Merkur)     |                  |
| 20:00 |  |                     |                  |
| 20:30 |  |                     |                  |

Schedule of EnviroInfo 2005

Wednesday 7/9/2005

|       |  |                     |                     |                     |                      |                                    |  |   |
|-------|--|---------------------|---------------------|---------------------|----------------------|------------------------------------|--|---|
| 8:00  |  |                     |                     |                     |                      | <b>Registration</b><br>(Reception) |  |   |
| 8:30  |  |                     |                     |                     |                      |                                    |  |   |
| 9:00  | <b>Opening Session</b> (Hall A)                              |                     |                     |                     |                      |                                    |  |   |
| 9:30  | P.Fiala, M.Venclík, M.Hošek, B.Moldan, J.McGlade, J.Hřebíček |                     |                     |                     |                      |                                    |  |   |
| 10:00 | <b>Coffee Break</b> (Grill Bar)                              |                     |                     |                     |                      |                                    |  |   |
| 10:30 | <b>Invated Talks</b>   |                     |                     |                     |                      |                                    |  |   |
| 11:00 | (Hall A)   |                     |                     |                     |                      |                                    |  |   |
| 11:30 | W.Pillmann, K.Fabbri, G.Weets, J.Král                        |                     |                     |                     |                      |                                    |  |   |
| 12:00 |  |                     |                     |                     |                      |                                    |  |   |
| 12:30 |  |                     |                     |                     |                      |                                    |  |   |
| 13:00 | <b>Lunch</b>   |                     |                     |                     |                      |                                    |  |   |
| 13:30 | (Restaurant)   |                     |                     |                     |                      |                                    |  |   |
| 14:00 |  |                     |                     |                     |                      |                                    |  |   |
| 14:30 | <b>P. Session 1</b>  | <b>P. Session 2</b> | <b>P. Session 3</b> | <b>P. Session 4</b> | <b>P. Session 5</b>  |                                    | <b>WS1</b> - Tools for<br>Emergencies<br>and Disaster<br>Management<br>(BVV - BC 1)<br>W.Pillmann<br>T.Ruddy | <b>WS2</b> - Informat.<br>management<br>in an enlarged<br>EU<br>(BVV - BC 2)<br>V.Benko<br>J.Hradec |
| 15:00 | (Hall A)   | (Hall B)            | (Hall C)            | (Hall D)            | (Blue Hall)          |                                    |  |   |
| 15:30 | J.Král   | A.Gnauck            | D. Némethová        | H.Streuff           | W.Geiger             |                                    |  |   |
| 16:00 | <b>Coffee Break</b> (Grill Bar)                              |                     |                     |                     |                      |                                    |  |   |
| 16:30 | <b>P. Session 6</b>  | <b>P. Session 7</b> | <b>P. Session 8</b> | <b>P. Session 9</b> | <b>P. Session 10</b> |                                    |  |   |
| 17:00 | (Hall A)   | (Hall B)            | (Hall C)            | (Hall D)            | (Blue Hall)          |                                    |  |   |
| 17:30 | S.Jensen   | V. Perminov         | M.Konečný           | J.Pecar-Ilic        | J.Jarkovský          |                                    |  |   |
| 18:00 |  |                     |                     |                     |                      |                                    |  |   |
| 18:30 | <b>Poster Session</b>  | W. Pillmann         |                     |                     |                      |                                    |  |   |
| 19:00 | (Hall A)   | L. Hilty            |                     |                     |                      |                                    |  |   |
| 19:30 |  |                     |                     |                     |                      |                                    |  |   |
| 20:00 | <b>Welcome Party</b>   |                     |                     |                     |                      |                                    |  |   |
| 20:30 | (Grill Bar)  |                     |                     |                     |                      |                                    |  |   |

Schedule of EnviroInfo 2005

Thursday 8/9/2005

|       |                                 |                      |                      |                      |                      |                             |                |              |
|-------|---------------------------------|----------------------|----------------------|----------------------|----------------------|-----------------------------|----------------|--------------|
| 8:00  |                                 |                      |                      |                      |                      | Registration<br>(Reception) |                |              |
| 8:30  | <b>P. Session 11</b>            | <b>P. Session 12</b> | <b>P. Session 13</b> | <b>P. Session 14</b> | <b>P. Session 15</b> |                             | WS3 - INSPIRE  |              |
| 9:00  | (Hall A)                        | (Hall B)             | (Hall C)             | (Hall D)             | (Blue Hall)          |                             |                | Building the |
| 9:30  | J.Ráček                         | J.Cooper             | I.Ruzic              | K.Tochtermann        | J.S.Gómez            |                             |                | European     |
| 10:00 | <b>Coffee Break (Grill Bar)</b> |                      |                      |                      |                      |                             | Spatial Data   |              |
| 10:30 | <b>P. Session 16</b>            | <b>P. Session 17</b> | <b>P. Session 18</b> | <b>P. Session 19</b> | <b>P. Session 20</b> |                             | Infrastructure |              |
| 11:00 | (Hall A)                        | (Hall B)             | (Hall C)             | (Hall D)             | (Blue Hall)          |                             | (BVV - BC 1)   |              |
| 11:30 | V.Benko                         | M.G. Schimek         | H.Kremers            | A.Scharl             | R.Isenmann           |                             | Ch.Steenmans   |              |
| 12:00 | <b>Lunch</b>                    |                      |                      |                      |                      |                             |                |              |
| 12:30 | (Restaurant)                    |                      |                      |                      |                      |                             |                |              |
| 13:00 |                                 |                      |                      |                      |                      |                             |                |              |
| 13:30 | <b>P. Session 21</b>            | <b>P. Session 22</b> | <b>P. Session 23</b> | <b>P. Session 24</b> | <b>P. Session 25</b> |                             | eEIONET 1      |              |
| 14:00 | (Hall A)                        | (Hall B)             | (Hall C)             | (Hall D)             | (Blue Hall)          |                             |                | (Room 103)   |
| 14:30 | F. E. Cellier                   | N.X.Thinh            | F. Hosenfeld         | D.Kotzinos           | W.Pillmann           |                             |                | S.Jensen     |
| 15:00 | <b>Coffee Break (Grill Bar)</b> |                      |                      |                      |                      |                             |                |              |
| 15:30 | <b>P. Session 26</b>            | <b>P. Session 27</b> | <b>P. Session 28</b> | <b>P. Session 29</b> | <b>P. Session 30</b> |                             |                |              |
| 16:00 | (Hall A)                        | (Hall B)             | (Hall C)             | (Hall D)             | (Blue Hall)          |                             |                |              |
| 16:30 | H.J.Streuff                     | L.Hilty              | R.Legat              | K.Fabbri             | A. Susini            |                             |                |              |
| 17:00 | <b>Coffee Break (Grill Bar)</b> |                      |                      |                      |                      |                             |                |              |
| 17:30 | <b>P. Session 31</b>            | <b>P. Session 32</b> | <b>P. Session 33</b> |                      | <b>TC Meeting</b>    |                             |                |              |
| 18:00 | (Hall A)                        | (Hall B)             | (Hall C)             |                      | (Blue hall)          |                             |                |              |
| 18:30 | S. Mori                         | J.Pejčoch            | T.Pitner             |                      |                      |                             |                |              |
| 19:00 |                                 |                      |                      |                      |                      |                             |                |              |
| 19:30 |                                 |                      |                      |                      |                      |                             |                |              |
| 20:00 | <b>Conference Dinner</b>        |                      |                      |                      |                      |                             |                |              |
| 20:30 | (Restaurant Moravská chalupa)   |                      |                      |                      |                      |                             |                |              |

Schedule of EnviroInfo 2005

Friday 9/9/2005

|       |   |                      |                      |                      |   |                                    |  |
|-------|---|----------------------|----------------------|----------------------|---|------------------------------------|--|
| 8:00  |   |                      |                      |                      |   | <b>Registration</b><br>(Reception) |  |
| 8:30  | <b>P. Session 34</b>  | <b>P. Session 35</b> | <b>P. Session 36</b> | <b>P. Session 37</b> | <b>Ecoinforma<br/>Symposium</b><br>(Blue Hall)<br>M.MacDonell |                                    | <b>eEIONET 2</b><br>(Room 103)<br>S.Jensen |
| 9:00  | (Hall A)  | (Hall B)             | (Hall C)             | (Hall D)             |   |                                    |  |
| 9:30  | T.Ruddy   | G.Schimak            | G.Knetsch            | J.M.Caridad          |   |                                    |  |
| 10:00 |   |                      |                      |                      |   |                                    |  |
| 10:30 | <b>Coffee Break</b> (Grill Bar)   |                      |                      |                      |   |                                    |  |
| 11:00 | <b>Invated Talk</b> (Hall A)  |                      |                      |                      |   |                                    |  |
| 11:30 | J.Pokorný, A.Scharl   |                      |                      |                      |   |                                    |  |
| 12:00 | <b>Closing Session</b> (Hall A) W.Pillman, K.Tochtermann, J.Hřebíček, J.Ráček |                      |                      |                      |   |                                    |  |
| 12:30 | <b>Lunch</b>  |                      |                      |                      |   |                                    |  |
| 13:00 | (Restaurant)  |                      |                      |                      |   |                                    |  |
| 13:30 |   |                      |                      |                      |   |                                    |  |
| 14:00 | <b>Trips</b>  |                      |                      |                      |   |                                    |  |
| 14:30 |   |                      |                      |                      |   |                                    |  |
| 15:00 |   |                      |                      |                      |   |                                    |  |
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| 20:00 |   |                      |                      |                      |   |                                    |  |
| 20:30 |   |                      |                      |                      |   |                                    |  |

**Tuesday 6/9/2005**

**Press Conference - Hotel Voroněž, Hall D, from 10:00**

10:00 Press conference

*J. Hřebíček, J. Hrubý, J. Ráček, V. Štětka, CZ*

**Tutorial: Human and ecological risk assessment, expert systems - Centre of Biostatistics and Analyses Masaryk University in Brno, Computer room, from 14:00**

14:00 Human and ecological risk assessment, expert systems

*L. Dušek, I. Holoubek, J. Jarkovský, J. Koptíková, J. Kohout, R. Šmíd, P. Pavliš, J. Mužík, J. Hřebíček, CZ*

**Dinner of Program Committee - Hotel Voroněž, Blue hall, from 19:00**

## Wednesday 7/9/2005

### Opening Session - Hotel Voroněž, Hall A, from 9:00

- 9:00 Opening ceremony  
*P. Fiala*, rector of Masaryk University  
*M. Venclík*, first vice president of South Moravia  
*M. Hošek*, deputy mayor of the city Brno
- 9:30 Awarding gold medals of the Masaryk University in Brno to  
*B. Moldan*, Charles University Environment Centre, CZ  
*J. McGlade*, European Environment Agency, DK

### Coffee Break - Hotel Voroněž, Grill Bar, from 10:00

### Invited Talks - Hotel Voroněž, Hall A, from 13:00

- 10:30 The integration of environmental knowledge. Environmental informatics provides information for communication  
*W. Pillman*, AT (page 1)
- 11:15 Service orientation in environmental information systems  
*J. Král*, CZ (page 12)
- 12:00 European research policy on information and communication technologies for the Environment  
*G. Weets, K. Fabbri*, BE (page 458)

### Lunch - Hotel Voroněž, Restaurant, from 13:00

### Parallel Session 1: Environmental information systems engineering - Hotel Voroněž, Hall A, from 14:30, Chair *J. Král*

- 14:30 A new and flexible architecture for the German environmental information network  
*T. Vögele, M. Klenke, F. Kruse, S. Groschupf*, DE (page 30)
- 15:00 Development of an implementation concept for environmental information systems on an industrial and intercompany level  
*E. Perl, S. Vorbach*, AT (page 36)
- 15:20 The new role of the CENIA for the Czech environmental information network  
*J. Hradec*, CZ (page 41)
- 15:40 Applications of environmental semantics  
*M. Rüter, T. Bandholtz*, DE (page 44)

**Parallel Session 2: Modelling, simulation and computing (tools)**

**- Hotel Voroněž, Hall B, from 14:30, Chair A. Gnauck**

- 14:30 Modelling and simulation with using Maple  
*E. S. Cheb-Terrab, J. Cooper, B. W. Wilson, CA (page 465)*
- 15:00 OpenMI: A standard interface for linking environmental modelsC.  
Gavardinas, F. Fotopoulos, P. Gijsbers, R. Moore, GR  
(page 486)
- 15:20 Utilization of mathematical modelling for self-purification of Tajan  
River and its impact on Caspian Sea.  
*N. Mehrdadi, A. Bagvand, M. Ghobady, IR (page 491)*
- 15:40 Mathematical modelling of environmental pollution in Urban  
Canyon  
*V. Perminov, RU (page 500)*

**Parallel Session 3: Geographical information systems and their  
applications (water) - Hotel Voroněž, Hall C, from 14:30,**

**Chair D. Némethová**

- 14:30 Application of GIS and web technologies for danube waterway data  
management in Croatia  
*J. Pecar-Ili, I. Ruzic, HR (page 207)*
- 15:00 Predictive benthic habitat mapping in the North Sea using GIS and  
statistical methods  
*R. Pesch, H. Pehlke, W. Schroeder, DE (page 215)*
- 15:20 GIS based water quality management system of coastal area  
*K. Kim, L. Hyuk, L. Kwangya, KR (page 220)*
- 15:40 GIS-based sediment and nutrient balancing for mesoscaled  
watersheds: the STOFFBILANZ approach  
*S. Halbfass, K. Grunewald, M. Gebel, M. Kaiser, DE (page 225)*

**Parallel Session 4: Knowledge management and decision support systems  
(networking) - Hotel Voroněž, Hall D, from 14:30, Chair H. Streuff**

- 14:30 SaDIN (Sahel-Doukkala Information Network) - Progress in the  
realisation of an online geoinformation system in Morocco  
*R. Löwner, A. Souhel and the SaDIN working Group, DE (page 378)*
- 15:00 Networking information in decision support of sustainable  
development  
*B. Moldan, CZ*
- 15:20 Concord: a tool for the analysis and concordances of the  
terminological constituents  
*P. Plini, N. Mastidoro, F. Mazzocchi, IT (page 321)*
- 15:40 Decision support for environmental problems in developing  
countries: Applying commonGIS for the Nicaragua development  
gateway niDG

*V. Hernández, A. Voss, C. Hopmann, DE (page 326)*

**Parallel Session 5: Environment, Health and Security (e-Health) - Hotel Voroněž, Blue hall, from 14:30, Chair *W. Geiger***

- 14:30 Analysis of population cancer risk factors in national information system SVOD  
*J. Mužík, L. Dušek, P. Pavliš, J. Koptíková, J. Žaloudík, R. Vyzula, CZ (page 421)*
- 15:00 The national web portal for cancer epidemiology in the Czech Republic  
*L. Dušek, J. Mužík, M. Kubásek, J. Koptíková, P. Brabec, J. Žaloudík, R. Vyzula, CZ (page 434)*
- 15:20 Role of NGOs in environmental health risk communication: look from the Ukraine  
*L. Gerbilsky, V. Khazan, D. Küster, O. Staroseletska, DE (page 428)*
- 15:40

**Workshop 1: Tools for Emergencies and Disaster Management - Business Centre Brno Trade Fair, Room 1, from 14:30, Chairs *W. Pillmann, T. Ruddy***

- DG InfSo's role in designing systems of systems information architecture for Global Monitoring for Environment Security (GMES)  
*K. Fabbri, BE*
- The Group on Earth Observation (GEO) and the Role of the European Commission in the Implementation of the Global Earth Observation System of Systems (GEOSS)  
*T. Fuchs, BE*
- ICT-supported Collaborative Crisis Planning  
*J. Pejnoch, CZ (page 918)*
- An On-line Emergency Planning Service for Facilities in the Geneva Region Susceptible to Major Hazards  
*A. Susini, P. Stofer, F. Lepri, J. Magnin, CH (page 926)*
- The Advantages of Using the Leading GIS Software Packages from ESRI in Connection with GEOSS  
*N. Thomas, CH*
- Remote Sensing Systems: An Overview Focussing on Environmental Applications  
*U. Weidner, DE*

**Workshop 2: Information management in an enlarged EU - Business  
Centre Brno Trade Fair, Room 2, from 14:30, Chairs V. Benko, J. Hradec**

- Institution building: EU-twinning project CENIA supporting the Czech environmental information agency  
*H. Schneider, C. Heuberger, A. Petr, J. Hradec, DE and CZ*  
(page 878)
- Reporting towards the European Commission for environment issues  
*R. Virgovič, SK* (page 886)
- Twinning as seen through the eyes of an old member state  
*U. Stärk, AT* (page 889)
- Institutional and capacity building in the environmental sector in Slovakia, Slovak – Austrian twinning project  
*V. Košková, SK* (page 895)
- E<sup>2</sup>SP: a new environmental reporting platform in ASP mode  
*M. Cislaghi, G. Corbetta, R. Mazzilli, E. Seregni, K. Klejnowski, A. Bucko-Serafin, J. Jamrocha, R. Dunal, IT and PL* (page 899)
- Twinning Projects between 2002 and 2005 Managed by the Ministry of Environment and Water of Hungary  
*A. M. Bartha; P. Bozo, HU* (page 913)

**Coffee Break - Hotel Voroněž, Grill Bar, from 16:00**

**Parallel Session 6: Environmental information systems engineering  
(water) - Hotel Voroněž, Hall A, from 16:30, Chair S. Jensen**

- 16:30 System for European water monitoring (SEWING)  
*A. Filipkowski, Z. Brzozka, W. Wróblewski, L. Opalski, J. Ogrodzki, A. Kobus, B. Jaroszewicz, P. Moscetta, L. Sanfilippo, R. Allabashi, P. Temple-Boyer, I. Humenyuk, PL* (page 49)
- 17:00 Outlook on water use in Europe in 2030  
*M. Flörke, S. Isoard, J. Alcamo, DE* (page 57)
- 17:20 TRITON - Complex system for surface water quality assessment  
*P. Pavliš, J. Jarkovský, L. Dušek a L. Skočovský, CZ* (page 63)
- 17:40 Reporting schemes for the European water framework directive in the context of the internet portal WasserBLiCK and INSPIRE  
*T. Usländer, J. Stumpp, R. Busskamp, K. Fretter, DE* (page 68)

**Parallel Session 7: Modelling, simulation and computing (air)**

**- Hotel Voroněž, Hall B, from 16:30, Chair V. Perminov**

- 16:30 Making air quality assessments with AIRBASE  
*W. Mol, F. de Leeuw, NL (page 507)*
- 17:00 RAINS-NL: An integrated assessment model to support duth air  
quality policy making  
*J. Aben, J.-P. Hettelingh, W. Schoepp, NL (page 513)*
- 17:20 CITEAIR - Common information to European air  
*N. Hodges, S. van den Elshout, H.-J. Heich, C. Lad, K. Léger,  
F. Nussio, UK (page 518)*
- 17:40 Air quality management via the forecasting models  
*P. Holnicki, A. Kaluszko, PL (page 523)*

**Parallel Session 8: Geographical information systems and their  
applications - Hotel Voroněž, Hall C, from 16:30, Chair M. Konečný**

- 16:30 How to promote cross-border mapping  
*S. Witschas, DE (page 289)*
- 17:00 Spatial analysis in web-based systems  
*M. Frehner, S. Haegi, M. Brändli, CH (page 297)*
- 17:20 Environmental monitoring digital library: improving the accessibility  
of the Russian satellite data  
*E. Kudashev, A. Filonov, RU (page 230)*
- 17:40 Nature-pilot Schleswig-Holstein - interactive balloon flight  
presenting nature highlights  
*F. Hosenfeld, A. Rinker, E-W. Reiche, D. Bornhöft, G. Schultz, DE  
(page 239)*

**Parallel Session 9: Knowledge management and decision support systems**

**- Hotel Voroněž, Hall D, from 16:30, Chair J. Pecar-Ilic**

- 16:30 Ontology based quality assurance for mobile data acquisition  
*F. Wang, S. Mäs, W. Reinhardt, A. Kandawasvika, DE (page 334)*
- 17:00 Overcoming the multiple islands of ontologies  
*K. Schleidt, H. Schentz, M. Mirtl, AT (page 342)*
- 17:20 Different approaches to microarray data analysis  
*L. Kokrment, P. Hetmánek, CZ (page 347)*
- 17:40 Exctraction of surface properties from a high accuracy DEM using  
multiscale remote sensing techniques  
*J. Grazzini, N. Chrysoulakis, GR (page 352)*

**Parallel Session 10: Environment, Health and Security (ecotoxicology)**

**- Hotel Voroněž, Blue hall, from 16:30, Chair J. Jarkovský**

- 16:30 Information requirements on alternative measures for the minimization of the use of biocides  
*H. Kremers, T. Fiedler, S. Gartiser, DE (page 440)*
- 17:00 Interactive information system for ecotoxicological tests – DATEST  
*R. Šmíd, D. Klimeš, L. Dušek, J. Jarkovský, B. Maršálek, J. Hofman, L. Bláha, P. Čupr, I. Holoubek, CZ (page 441)*
- 17:20 Object oriented model for cluster analysis in environmental risk management  
*F. Huňka, J. Ráček, CZ (page 446)*
- 17:40 An information system for accounting fate of man-induced substances and determining their effects on aquatic organisms and ecosystem functions  
*S. Meinecke, M. Feibicke, M. Haase, J. Freudig, G. Lukacs, C. Hofmann, DE (page 453)*

**Welcome Drink - Hotel Voroněž, Grill Bar, from 18:30**

**Poster Session - Hotel Voroněž, Hall A, from 19:00, Chairs W. Pillmann, L. Hilty**

- Envirocat: A tool supporting the development of an environmental monitoring system in Switzerland  
*K. Fink, V. Ortner, M. Wüest, J-P. Richard, CH (page 953)*
- Information system of environmental impact assessment (EIA) in Slovakia  
*R. Navrátil, SK (page 955)*
- Automatic flood mapping method using EOLES technology  
*F. Lupo, G. Vandenschrack, BE (page 957)*
- The European soil portal: Networking soil information in Europe  
*P. Panagos, M. Van Liedekerke, IT (page 959)*
- Community organisation structures for effective water and sanitation management in Peri-Urban areas: Case of LUSAKA –Zambia  
*O. C. Kawanga, ZA (page 967)*
- A very flexible web based database system for environmental research  
*R. Krause, DE (page 968)*
- A method for detecting breakpoints in array CGH data  
*E. Budinská, E. Gelnarová, CZ (page 673)*
- Automated conclusion of a contract for the support of multi utility markets and virtual power plants  
*A. Dietrich, W. Kazakos, DE (page 970)*

- Development of a biogas plant for the Kumasi abattoir  
*K. Adzabe, B. G. Asenso, E. C. Bensah, E. Dery, A-J. Hussein, M. Y. Mensah, H. Pinto, M. D. Sarpong, M. Thompson, N. E. Quist-Therson, GH (page 972)*
- GRIBS2: An interactive GIS tool for mapping industrial facilities with dangerous substances and microorganisms in an urban environment  
*E. Dumermuth, R. Braun, U. Vögeli, A. Herrmann, CH (page 977)*
- Evaluating the long-range transport of persistent organic pollutants – Computation and analysis of air mass backward trajectories  
*A. Dvorská, P. Čupr, I. Holoubek, CZ (page 979)*
- Passive sampling as an attractive tool for air genotoxic potency screening assessment  
*P. Čupr, J. Klánová, T. Bartoš, Z. Flegrová, J. Kohoutek, I. Holoubek, CZ (page 983)*
- The austrian soil platform – An internet-based tool to support knowledge exchange and awareness building  
*M. Tulipan, F. Strebl, AT (page 984)*
- Predictive modeling of potential distribution of plant associations in the Czech Republic  
*K. Kubošová, O. Hájek, M. Chytrý, M. Svoboda, CZ (page 986)*
- Formalized analysis supporting automated scenarios for environmental risk assessment  
*J. Kohout, J. Hřebíček, CZ (page 989)*

## Thursday 8/9/2005

### **Parallel Session 11: Environmental information systems engineering (bio) - Hotel Voroněž, Hall A, from 8:30, Chair J. Ráček**

- 8:30 Classification of biological communities in biomonitoring programs – suggestion of robust solution  
*J. Jarkovský, L. Dušek, P. Pavliš, K. Kubošová, J. Hodovský, J. Hřebíček, CZ (page 73)*
- 9:00 A web-based reviewing process guidance system for an ecological database of plant traits  
*D. Ahlers, J. Finke, M. Stadler, M. Sonnenschein, DE (page 80)*
- 9:20 Biological ontology modelling supported by CLOSi database schemas for Amazon data extraction  
*A. C. F. Albuquerque, J. L. Campos dos Santos, BR (page 85)*
- 9:40 Using data mining techniques for exploring the key features of plant dynamics upon a newly built plant trait database  
*M. Stadler, R. M. Bekker, J. Finke, D. Kunzmann M. Sonnenschein, DE (page 90)*

### **Parallel Session 12: Modelling, simulation and computing (energy) - Hotel Voroněž, Hall B, from 8:30, Chair J. Cooper**

- 8:30 European energy system models for the analyses of interdependencies among relevant markets  
*H. Perlwitz, S. Cail, D. Möst, O. Rentz, DE (page 528)*
- 9:00 Analysis of residential heat consumption and building data  
*B. Krüger, M. Kleemann, DE (page 536)*
- 9:20 Development of an agent-based model to analyse the effect of renewable energy on electricity markets  
*M. Genoese, F. Sensfuß, A. Weidlich, D. Möst, O. Rentz, DE (page 542)*
- 9:40 Application of GIS analysis and CRESS DSS for optimal design of combustion facility for biomass  
*Z. Boukalová, J. Heller P. Kořán, C. Malamatenios, V. Petříková, CZ (page 547)*

### **Parallel Session 13: Geographical information systems and their applications (urban planning) - Hotel Voroněž, Hall C, from 8:30, Chair I. Ruzic**

- 8:30 DEVLOC: a distributed GIS and satellite-based information service for the benefit of urban planners and citizens  
*S. Rahoux, P. Puyou-Lascassies, FR (page 244)*

- 9:00 Assessment of environmental impacts of land use land cover change:  
A challenge for urban planning in Metropolitan Kampala  
*L. Shuaib, J. B. Nyakaana, H. Sengendo*, UG (page 252)
- 9:20 Coal mining area of Köflach/Voitsberg (Austria) – assessing changes  
in landscapes  
*W. Sulzer, W. Polting*, AT (page 258)
- 9:40 AGIS. Reflections on a geographic information system used as a  
web-based planning tool for the ASVK Graz  
*J. Gspurning*, AT (page 263)

**Parallel Session 14: Knowledge management and decision support systems  
- Hotel Voroněž, Hall D, from 8:30, Chair K. Tochtermann**

- 8:30 UWEDAT-LAN – Connecting environmental monitoring devices  
*J. Schabauer, G. Schimak*, AT (page 357)
- 9:00 MORIS – MEDEA or using ecological tools for monitoring of  
meteorological extreme events  
*H. Schentz, K. Schleidt, M. König, M. Mirtl*, AT (page 365)
- 9:20 Handling heterogeneous data in a federal system using XML  
Demonstration of the Web Service for the German POP-Dioxin  
Database  
*N. Brüders, G. Knetsch, E. Weihs*, DE (page 370)
- 9:40 Some problems of environmental restore following Baku-Tbilisi-  
Ceyhan pipeline construction  
*K. Kvinikhidze, R. Enukidze*, GE (page 374)

**Parallel Session 15: Corporate sustainability communication and  
reporting - Hotel Voroněž, Blue hall, from 8:30, Chair J. S. Gómez**

- 8:30 Further developments – software tool providing tailored  
sustainability reports  
*R. Isenmann, J. Brosowski, M. Schappert, J. M. Gómez*, DE  
(page 684)
- 9:00 Assessing natural environmental disclosures of POMSx entities  
*M. Purushothaman, A. Brown, A. Scharl*, AU (page 692)
- 9:20 Solid waste management: Corporate and third-party online reporting  
*I. Pollach, A. Scharl, D. Gill*, AT (page 697)
- 9:40 One step beyond – developing towards interactive corporate  
sustainability reporting  
*R. Isenmann, K-C. Kim*, DE (page 702)

**Workshop 3: INSPIRE workshop - Building the European Spatial Data Infrastructure - Business Centre Brno Trade Fair, Room 1, from 8:30, Chair Ch. Steenmans**

- The Inspire work programme - State-of-play  
*H. Degroof* (DG ENV) or *H. Dufourmont* (Eurostat)
- The Eionet Spatial Data Interest Community  
*Ch. Steenmans* (EEA)
- Environmental thematic user needs  
*A. Lillethun* (Statens Kartverk Norway)
- Open Geospatial Consortium standards  
*G. Pichler* (OGC)
- European basic reference data  
*N.Land* (Eurogeographics)
- Use case Orchestra - Open Architecture and Spatial Data Infrastructure for Risk Management  
*K. Fabbri* (DG INFSO)

**Coffee Break - Hotel Voroněž, Grill Bar, from 10:00**

**Parallel Session 16: Environmental information systems engineering (radiation) - Hotel Voroněž, Hall A, from 10:30, Chair V. Benko**

- 10:30 Three years of experience with the SoDa web service delivering solar radiation information: lessons learned and perspectives  
*B. Gschwind, L. Ménard, M. Albuissou, L. Wald*, FR (page 95)
- 11:00 Exposure modelling for high-frequency non-ionising radiation: Results of a pilot study  
*A. Bürgi, G. Theis, A. Siegenthaler, M. Rössli*, CH (page 103)
- 11:20 Using calculated-logical systems (CLS) to raise the effectiveness of the remote control of automatic space vehicles (SV)  
*U. V. Alekseevich, S. N. Leonidovich*, RU (page 113)

**Parallel Session 17: Modelling, simulation and computing (water) - Hotel Voroněž, Hall B, from 10:30, Chair M. G. Schimek**

- 10:30 Modelling the hydrodynamics and water quality of the Vltava River reservoir cascade  
*M. Růžička, J. Hejzlar, J. Jarošík*, CZ (page 552)
- 11:00 Numerical modelling and analysis of water free surface flows  
*F. Dabaghi, A. El Kacimi, C. K. Kloucha, F. Mezali, B. Nakhle*, FR (page 563)
- 11:20 The hydrological IT framework of the Federal Waterways and Shipping Administration, Germany  
*C. Michl, F. Steinman, A. Reineke*, DE (page 568)
- 11:40 A water quality simulation model for a lowland river-lake system

*B. Luther, A. Gnauck, A. Meisch-Peschew, DE (page 573)*

**Parallel Session 18: Geographical information systems and their applications - Hotel Voroněž, Hall C, from 10:30, Chair H. Kremers**

- 10:30 Estimating environmental pollution in Latin American cities using emission factors data and GIS  
*M. Ossés, R. Zah, L. M. Hilty, CH (page 268)*
- 11:00 GIS as information technology's answer to the environmental pollution problem in the Niger Delta region of Nigeria  
*C. Achi, O. S. Nnaemeka, C. M. Asika, NI (page 276)*
- 11:20 GIS application to contain cholera epidemic in the city of Lusaka  
*O. C. Kawanga, ZA (page 279)*
- 11:40 A GIS mapping framework for the cultural site/route management of the Mundo Maya sustainable tourism program  
*Ž. Kokalj, P. Pehani, T. Podobnikar, H. Goodchild, V. Gaffney, K. Oštir, SI (page 284)*

**Parallel Session 19: Knowledge management and decision support systems (web services) - Hotel Voroněž, Hall D, from 10:30, Chair A. Scharl**

- 10:30 How Networking Works for Networks: Framework and Case Study  
*K. Tochtermann, G. Dösinger, T. Ley, B. Gissing, AT (page 312)*
- 11:00 Citizen-oriented environmental information services: usage and impact  
*K. Karatzas, G. Endregard, I. Fløisand, GR (page 872)*
- 11:20 Decision support for remedial technology  
*J. Pavlovič, CZ (page 388)*
- 11:40 Access-geodatabase modelling to aid decision making in river restoration: Case Study River Beult, Kent, UK  
*I. A. El-Magd, S. German, UK (page 393)*

**Parallel Session 20: Corporate sustainability communication and reporting - Hotel Voroněž, Blue hall, from 10:30, Chair R. Isenmann**

- 10:30 Application of ERP-systems in environmental management – case study and survey for IT-support  
*D. Heubach, C. Lang-Koetz, DE (page 710)*
- 11:00 Development of national environmental reporting system  
*J. Hřebíček, T. Pitner, J. Ráček, CZ (page 718)*
- 11:20 A new approach to solve data defects in material flow networks  
*L. Arco, I. Bonet, L. García, J. M. Gómez, C. Rautenstrauch, DE (page 724)*
- 11:40 Environmental and sustainability corporate reporting in the Czech Republic  
*L. Kokrment, J. Hřebíček, CZ (page 732)*

**Lunch - Hotel Voroněž, Restaurant, from 12:00**

**Parallel Session 21: Environmental information systems engineering (hydrological data) - Hotel Voroněž, Hall A, from 13:30, Chair F. E. Cellier**

- 13:30 Integrated hydrological data and knowledge management transfer for flood warning centres in Germany and Austria  
*M. Egeling, DE (page 119)*
- 14:00 Online system for hydro-meteorological data gathered via LEO – satellite transmission  
*W. Heiner, H. Stadler, P. Skritek, AT (page 131)*
- 14:20 The hydrological and meteorological monitoring, forecasting and warning system – conception and characteristic  
*A. Kruszewski, J. Niedbala, R. Skapski, PL (page 136)*
- 14:40 Logistic issues in data network implementation  
*J. Jessop, G. Bouchard, K. Jojczyk, L. Więcek, PL (page 141)*

**Parallel Session 22: Modelling, simulation and computing (global warming) - Hotel Voroněž, Hall B, from 13:30, Chair N. X. Thin**

- 13:30 Modeling, compliance, and permit trading under big uncertainties in reporting: greenhouse gases case  
*Z. Nahorski, J. Horabik, W. Jęda, M. Jonas, PL (page 577)*
- 14:00 A food supply and demand assessment under the future global warming using GIS  
*S. Mori, T. Doi, T. Ido, M. Kato, S. Morimoto, JP (page 585)*
- 14:20 Study on influence of the change of land cover ratio on urban thermal environment No.1 analysis by mean of the meso-scale numerical simulation model  
*H. Shibaïke, K. Itemadani, H. Takebayashi, JP (page 590)*
- 14:40 Study on influence of the change of land cover ratio on urban thermal environment No.2 analysis by mean of the meso-scale numerical simulation model  
*H. Shibaïke, K. Itemadani, H. Takebayashi, JP (page 595)*

**Parallel Session 23: Geographical information systems and their applications - Hotel Voroněž, Hall C, from 13:30, Chair F. Hosenfeld**

- 13:30 Geospatial Technologies for Environmental Management  
*N. Thomas, CH*
- 14:00 GISIG-Geographical information systems international group  
*G. Saio, IT*
- 14:20 MSAT: a new multiscale spatial analysis tool  
*C. Candillier, N. Mouaddib, FR (page 302)*

- 14:40 Establishment of spatial data infrastructure within the environmental sector in Slovak Republic  
*M. Tuchyna*, SK (page 307)

**Parallel Session 24: Knowledge management and decision support systems (waste) - Hotel Voroněž, Hall D, from 13:30, Chair D. Kotzinos**

- 13:30 Benchmarking of waste management software based on a process and requirements analysis - case study Volkswagen AG  
*S. L. Francàs, J. M. Gómez, C. Grünwald, R. Eppers*, DE (page 398)
- 14:00 "European waste sector assistant - EUWAS" -implementation of a web-based knowledge management system for the European waste sector  
*U. Eimer, S. Krause*, DE (page 406)
- 14:20 European data interchange for waste notification systems- optimisation of waste transports administration  
*F. Mochty, M. Pollak*, AT (page 411)
- 14:40 The use of the web site in the YTV waste prevention strategy  
*R-L. Hahtala, S. Huuhtanen, S. Kajaste, S. Kemppainen, O. Linsiö, M. Partti*, FI (page 415)

**Parallel Session 25: Urban environment (Landscape, urban planing...) - Hotel Voroněž, Blue hall, from 13:30, Chair W. Pillmann**

- 13:30 Three dimensional landscape design and visualization by VRML  
*T. Honjo, E. Lim, K. Umeki*, JP (page 739)
- 14:00 Evaluation of landscape and environmental changes in the Rosia Montana basin using GIS methods  
*R. Géczy, G. Barton, K. Bódis*, HU (page 747)
- 14:20 Landscape fragmentation in the free state of Saxony and the surrounding border areas  
*U. Walz, U. Schumacher*, DE (page 754)
- 14:40 Sustainable land use planning for bubiyán Island in Kuwait  
*S. A. Omar, R. Grina*, KW (page 759)

**Coffee Break - Hotel Voroněž, Grill Bar, from 15:00**

**Parallel Session 26: Environmental information systems engineering (web portals) - Hotel Voroněž, Hall A, from 15:30, , Chair H. J. Streuff**

- 15:30 Integrated analysis of environmental data through networking and innovations – despite organisational changes, increasing requirements and decreasing budgets  
*R. Mayer-Föll, A. Keitel, C. Hofmann, G. Lukács, M. Briesen, A. Otterstätter, DE (page 146)*
- 16:00 Air pollution geostatistical modeling using environmental and anthropogenic data  
*R. Menezes, R. Figueira, A. J. Sousa, C. Sérgio, PT (page 768)*
- 16:20 Monitoring the environment on the Internet with open source software and open standards  
*P. H. Johansen, G. O. B. Nielsen, H. E. Thorset, NO (page 156)*
- 16:40 'Between the idea: Quo Vadis XML?  
*E. Weihs, DE (page 773)*

**Parallel Session 27: Modelling, simulation and computing (urbanicity) - Hotel Voroněž, Hall B, from 15:30, Chair L. Hilty**

- 15:30 Simulation of land use dynamics through a cellular automata model based on GIS, neighbourhood analysis, and compromise programming  
*N. X. Thinh, R. Vogel, DE (page 600)*
- 16:00 Modelling outcrossing of transgenes in maize between neighboring maize fields  
*M. Debeljak, D. Demšar, S. Džeroski, J. Schiemann, R. Wilhelm, S. Meier-Bethke, SI (page 610)*
- 16:20 Using data mining to assess the effects of Bt maize on soil microarthropods  
*M. Debeljak, J. Cortet, D. Demšar, S. Džeroski, FR (page 615)*
- 16:40 Geography and integrated landscape assessment for needs of sustainable development planning – potency or impotency?  
*M. Balej, CZ (page 621)*

**Parallel Session 28: Standardisation of environmental data and information management / Metadata, Protocols - Hotel Voroněž, Hall C, from 15:30, Chair R. Legat**

- 15:30 Using ISO 19115 metadata and web services to facilitate data access, visualization and processing  
*W. Kazakos, M. Briesen, R. Lehfeldt, H-C. Reimers, DE (page 775)*
- 16:00 A thesaurus for remote sensing and GIS: preliminary version and future plans  
*A. Grignetti, P. Plini, F. Mazzocchi, V. De Santis, IT (page 783)*

- 16:20 Environmental data catalogue: Implementation and data quality issues  
*P. Fischer-Stabel, R. Krieger, K. Schäfer, S. Wannemacher, DE*  
(page 788)
- 16:40 Publishing and distribution of environmental information in civil engineering based on spatial metadata description  
*G. Seewald, M. Petersen, T. Gutzke, DE* (page 793)

**Parallel Session 29: Environmental informatics in the 7th framework programme of the EU - Hotel Voroněž, Hall D, from 15:30, Chair K. Fabbri**

- 15:30 Introduction to the 7th framework programme of the EU  
*K.Fabbri, BE*
- 16:00 Round table discussion

**Parallel Session 30: Urban environment (Landscape, urban planing...) - Hotel Voroněž, Blue hall, from 15:30, Chair A. Susini**

- 15:30 Automatic land use classification and SEA – compliant indicator assessment in urban areas  
*P. Wäger, R. Zah, M. Sohlbach, A. Böhme, D. Bangert, CH*  
(page 760)
- 16:00 Development of internet application of landscape atlas of the Slovak republic at the Slovak environmental agency  
*M. Koška, SK* (page 765)
- 16:20 A WebGIS data retrieval system for use in environmental monitoring  
*G. Schmidt, L. Lösewitz, DE* (page 161)

**Coffee Break - Hotel Voroněž, Grill Bar, from 17:00**

**Parallel Session 31: Environmental information systems engineering - Hotel Voroněž, Hall A from 17:30, Chair S. Mori**

- 17:30 MarGIS Marine geo-information-system for visualisation and typology of marine geodata  
*K. Jerosch, M. Schlüter, R. Pesch, W. Schröder, A. Köberle, L. Vetter, DE* (page 165)
- 18:00 Development of a very flexible web based database system for environmental research  
*R. Krause, DE* (page 167)
- 18:20 Communicating database design: A case study using the object role modeling (ORM) method  
*J. Reinhard, P. Jakob, A-M. Jakob, DE* (page 172)

18:40 The case study of environment web portal  
*M. Kubásek, CZ (page 177)*

**Parallel Session 32: Modelling, simulation and computing (crisis management) - Hotel Voroněž, Hall B, from 17:30, Chair J. Pejčoch**

17:30 Mathematical model of forest fire initiation and spread  
*V. Perminov, RU (page 622)*

18:00 Interactive flood portal: Educational support  
*R. Konieczny, M. Siudak, M. Barszczyńska, PL (page 628)*

18:20 Preliminary results of rainfall erosivity mapping for Poland  
*P. Licznar, M. Szymonowski, PL (page 633)*

18:40 A Web based information system of "The prevention of major industrial accidents" (SEVESO)  
*E. Pacola, Margita Galková, SK (page 641)*

19:00 Measurement of workflow system development  
*J. Fiala, J. Ministr, J. Ráček, J. Sedláčková, CZ (page 646)*

**Parallel Session 33: e-Learning and support of environmental awareness building - Hotel Voroněž, Hall C, from 17:30, Chair T. Pitner**

17:30 Theme park soil-geology-nature: A case study for the evaluation of new concepts of environmental information systems for the general public  
*C. Döpmeier, W. Geiger, R. Ebel, E. Schmid, M. Linnenbach, DE (page 799)*

17:50 Servicing environmental e-learning (E<sup>2</sup>-Learning): using geographic information and remote sensing web services to support E<sup>2</sup>-learning  
*D. Kotzinos, G. Konstantinou, N. Chrysoulakis, GR (page 804)*

18:10 Blended learning: Concepts and frameworks and tools for environmental education  
*T. Pitner, J. Ráček, CZ (page 809)*

18:20 The Harmonisation Process - Content matters [Why a Substance Information System is successful over 10 Years]  
*M. Menger, P. Jahnke, DE (page 813)*

**GI TC 4.6 Meeting - Hotel Voroněž, Blue hall, from 17:30**

**Conference Dinner - Restaurant Moravská chalupa, from 20:00**

## Friday 9/9/2005

### **Parallel Session 34: Environmental information systems engineering (crisis management) - Hotel Voroněž, Hall A, from 8:30, Chair T. Ruddy**

- 8:30 Access to distributed earth science data supported by emerging technologies  
*J. van Bemmelen, L. Fusco, V. Guidetti, IT (page 181)*
- 8:50 MONA – A situation-aware decision support system for emergency situations  
*B. Holtkamp, N. Weissenberg, H. Speckmann, DE (page 186)*
- 9:10 IMIS – A reference model for future early warning systems?  
*V. Schulz, J. van Nouhuys, H. Leeb, DE (page 191)*
- 9:30 An internet- and knowledge-based alert-system for groundwater disaster management  
*U. Rüppel, T. Gutzke, DE (page 196)*
- 9:50 Flood warnings at the local level: Tools and experiences in their implementation  
*P. Madej, R. Konieczny, A. Kruszewski, D. Partyka, PL (page 202)*

### **Parallel Session 35: Modelling, simulation and computing - Hotel Voroněž, Hall B, from 8:30, Chair G. Schimak**

- 8:30 Object-oriented Modeling of Heat and Humidity Budgets of Biosphere 2 Using Bond Graphs  
*F. E. Cellier, A. Nebot, J. Greifeneder, CH (page 651)*
- 8:50 A qualitative multi-attribute model for economic and ecological evaluation of genetically modified crops  
*M. Bohanec, A. Messéan, S. Scatasta, S. Džeroski, M. Žnidaršič, SI (page 661)*
- 9:10 Cyanobacterial water blooms seriously change the structure and biodiversity of phytoplankton assemblages  
*D. Némethová, B. Maršálek, J. Jarkovský, CZ (page 669)*
- 9:30 The influence of the empirical parameters to the emission mode  
*J. Pešl, CZ (page 677)*

### **Parallel Session 36: e-Government in the enlarged Europe and environmental web services - Hotel Voroněž, Hall C, from 8:30, Chair G. Knetsch**

- 8:30 Electronic government and environment  
*F. C. da Costa, H. C. Hoeschl, BR (page 818)*
- 8:50 Environmental Information portals, services, and retrieval systems  
*A. Bassoukos, K. Karatzas, A. Kelemis, GR (page 151)*
- 9:10 Development of a geo-portal for e-land use information management  
*N. X. Thin, C. Deilmann, DE (page 829)*

- 9:30 Environmental collaboration through location-based mobile messaging and communication tools  
*H. Storch*, DE (page 835)
- 9:50 SuperThes an international model of sharing knowledge, data, information and Experiences  
*W-D. Batschi, R. Legat, P. Plini, H. Stallbaumer*, DE (page 840)

**Parallel Session 37: Statistics (Environmetrics) / Chemometrics - Hotel Voroněž, Hall D, from 8:30, Chair J. M. Caridad**

- 8:30 Synthesis of sampling site and metal specific bioaccumulation data by classification and regression trees  
*R. Pesch, W. Schröder*, DE (page 863)
- 8:50 Statistical analysis of uncertain measurements data by working out the models of water and wastewater systems  
*O. Hryniewicz, J. Studzinski*, PL (page 853)
- 9:10 Environmental contamination with endocrine disruptors and pharmaceuticals: An environmetrical evaluation approach  
*K. Voigt, R. Brüggemann, S. Pudenz, H. Scherb*, DE (page 858)
- 9:30 Missing data in environmental time series – a problem analysis  
*A. Gnauck, B. Luther*, DE (page 848)
- 9:50 Robust linear models and soft modelling to explain chemical and environmental data  
*K. Kupka*, CZ (page 871)

**Ecoinforma symposium - Hotel Voroněž, Blue hall, from 8:30, Chair M. MacDonell**

- 8:30 Mad cows and sick chickens: Using information networks to protect human health  
*W. J. Armbruster*, USA (page 931)
- 8:50 Creating Spatially-Linked Data and Risk Evaluation Tools to Support Community Participation and Decision Making for a Contaminated Site  
*H. J. Mohler, J. W. Aanenson, H. A. Grogan, J. E. Till*, USA (page 937)
- 9:10 Integrating Hazard Data with Visualization Approaches to Frame Decisions on Water Use  
*M. MacDonell, K. Morgan*, USA (page 941)
- 9:30 Mercury Risk Assessment: The Hidden Danger  
*L. Newland, M. MacDonel*, USA (page 945)

**Coffee Break - Hotel Voroněž, Grill Bar, from 10:00**

**Invited Talks - Hotel Voroněž, Hall A, from 10:30**

10:30 Database architectures: current trends and their relationships to  
environmental data management

*J. Pokorný, CZ (page 24)*

11:15 Identifying and Tracking Environmental Online Resources

*A. Scharl, AT (page 29)*

**Closing Session - Hotel Voroněž, Hall A, from 12:00**

**Lunch - Hotel Voroněž, Restaurant, from 12:30**

**Trips - Hotel Voroněž, Reception, from 14:00**