

ENVIROINFO

Environmental Communication in the Information Society

16th International Conference "Informatics for Environmental Protection"

Three weeks after the Johannesburg Summit EnviroInfo Vienna 2002 continues the specific application-oriented conference series "Informatics for Environmental Protection", documenting again the valuable work of the Expert Committee 4.6 within the German Society for Informatics. The 16th conference broadens the scope of the interdisciplinary field of 'enviromatics' through "communication" and "education", always keeping in mind the need for a global effort of 'sustainability'.

EnviroInfo Vienna 2002 is a meeting place for experts from leading edge technologies, fostering information flows in Europe and beyond, necessary for a sustainable development. An international program committee selected 193 presentations and 44 posters from more than 38 countries covering nearly all aspects of the state of environment. 210 contributions were enclosed in the two proceeding volumes with 1.480 pages. Special workshops on Hypermedia applications and landscape structuring allow in-depth analyses and discussions.

ISEP as the organizer is confident that EnviroInfo Vienna 2002 will bring plenty of inspiration and a growing network of partners to all of you.

Special Activities

- Directorate General Information Society:
Networking Initiative for the Europ. Commission's 6th framework program
- eEIONET Work Conference 2002 of the European Environmental Agency organized in parallel to the conference from September 26-28 for experts in the "Environmental Information and Observation Network".
- Eco-Infoma Foundation Special Session: information strategies to improve environmental decision-making, showing viewpoints from the USA.
- HU 2002 AK Hypermedia im Umweltschutz: „Vernetzung im Umweltbereich“
- GIANI - GI Arbeitskreis Nachhaltige Informationsgesellschaft
- LRG - Landscape Ecology, Remote Sensing and Graph Theory
- Best Paper Award and Environmental Informatics Award ("Umweltinformatik Preis"). The best papers will be awarded, sponsored by Eco-Infoma Foundation with US \$ 500,-. Moreover, the expert committee 4.6 decided to award a price to young researchers for excellent environmentally related works. Both awarding ceremonies take place on Friday afternoon, at approx. 15.30.
- A Poster exhibition covering the field of Enviromatics
- A technical exhibition with 14 stalls is organized next to the meeting rooms during the three days of the conference.



Organisation Committee

Kraus K., Vienna University of Technology (A)
Mrakotsky E., Int. Society for Environmental Protection (A)
Pillmann W., Conference Chair, Int. Society for Environmental Protection (A)
Schmied A., Int. Society for Environmental Protection (A)
Tochtermann K., KNOW-Center Graz (A)

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Johnston C., Advanced Engineering Associates Int'l (USA)
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Jensen S., European Environment Agency (DK)
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Mayer-Föll R., Ministerium für Umwelt und Verkehr (D)
Morgan K., Texas Christian University (USA)
Newland L., Texas Christian University (USA)
Page B., Universität Hamburg (D)
Pillmann W., ÖBIG - Austrian Health Institute and ISEP (A), Chair
Rautenstrauch C., Universität Magdeburg (D)
Riekert W.-F., HBI Stuttgart (D)
Ružic I., Rudjer Boskovic Institute (HR)
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ENVIROINFO



The European Commission's Information Society Directorate General, in charge of the *Information Society Technologies (IST) Programme of the European Union*, is pleased to be sponsor of the ENVIROINFO VIENNA 2002 conference. Its objectives support those of the IST research programme, which aims to enhance the user-friendliness, accessibility, relevance and quality of public services, and to support the integration and convergence of technologies across information, communication and media, thus to strengthen the competitiveness of European industry.

The *IST actions relating to environmental applications* foster the emergence of European-wide info-structures and support sustainable development through the creation of new knowledge-based systems for intelligent protection and efficient management of natural resources, as well as for risk and crisis prevention and mitigation.

The event, which forms part of the conference series on “*Informatics for Environmental Protection*” managed under the auspices of the German Society for Informatics is probably unique in the world of Environmental IST. It is becoming more and more a truly European, and even international, platform to present and exchange research results between experts from academia, industry and administrations.

This year's theme “*Environmental Communication in the Information Society*” will provide highly valuable and timely contributions to a wide constituency by promoting:

- the exchange, early exploitation and industrial take-up of EU and national research results, including those from IST Programme
- the implementation of the 6th Environment Action Programme of the European Community 2001-2010 through knowledge building , as well as the promotion of new information systems and services
- a better understanding of the challenges and aims of the European Research Area, and the preparation of new initiatives to be launched under the 6th Framework Programme for EU Research and Technological Development (2002-2006)

I wish to thank the organisers, in particular the International Society for Environmental Protection, for their impressive preparatory work and wish all participants a very successful and fruitful conference.

Wolfgang Boch

*European Commission, Directorate General Information Society
Head of Unit « IST Applications relating to Environment »*

Special Activities

Tuesday, Sept. 24, 19.30 - Get Together at the 'Bierreither', Schwarzenbergplatz 3, 1010 Vienna (10 minutes walking distance from TU)

Wednesday, Sept. 25, 20.00 - Reception of the Mayor of Vienna at the Vienna City Hall (please pick up your personal invitation at the registration desk)

Thursday, Sept. 26, 20.00 - Dinner at Technical University (Price: 22 Euro, payable at registration desk against receipt of dinner voucher)

Friday, Sept. 27, 15.45 - Farewell Reception

Registration

Standard Rate	€ 390
Reduced Rate*	€ 290
Student ticket**	€ 120
1day ticket**	€ 120

*Regular fee includes
Attendance, proceedings, lunches,
drinks during breaks, ticket for
Vienna public transports from Sept.
25-27, 2002*

* for GI-FA 4.6/ other GI members, ISEP/Members, authors, CEE countries

** price without proceedings

Proceedings Volume (available starting Sept. 25)

Part 1: € 35, Part 2: € 35, Part 1+2: € 68

On-line Registration and latest information:

<http://enviroinfo.isep.at>

Contact Registration Desk (during the meeting):

International Society for Environmental Protection (ISEP)

Tel. +43 (01) 588 01-0

please ask for the extension of "ENVIROINFO Conference Registration"

Opening Hours Registration Desk (during the meeting)

Tuesday, Sept. 24 17.00 - 19.00 (pre-registration)

Wednesday, Sept. 25 8.00 - 18.00

Thursday, Sept. 26 8.00 - 18.00

Friday, Sept. 27 8.00 - 15.00

Contact ISEP: *Int. Society for Environmental Protection*

Tel. +43 (01) 715 2828-0, Fax: -19

Email: enviroinfo@isep.at

Wednesday, September 25, 2002

8:00	Registration							E X H I B I T I O N
9:30-11:00	Lecture hall 1 Opening, Conference Introduction: Kneucker R. (bm:bwk); Kraus K. (TU Vienna); Pillmann W. (ISEP/FA 4.6) Keynote Presentations: F. Schmidt-Bleek (Factor 10 Institute); W. Boch (DG InfSo); W. Pillmann (ISEP/FA 4.6)							
11:00-11:30	Exhibition opening; Press conference; Coffee							
11:30-13:00	Room 2 Environmental Informatics Applications	Room 3 Water Monitoring		Room 6 * Workshop: Hypermedia for Environmental Protection 1	Room 7 Environment & Health	Room 8 Environmental Communication <i>Digital Media</i>		
13:00-14:00	Lunch							
14:00-15:30	Room 2 Environmental Information 1	Room 3 Water European Framework	Room 4 Measurement Networks	Room 5 Web Portals	Room 6 * Workshop: Hypermedia for Environmental Protection 2	Room 7 Geographic Information Systems 1	Room 8 Environmental Communication <i>Dialogues</i>	
15:30-16:00	Coffee							
16:00-18:00	Room 2 Environmental Information 2	Room 3 Water Information Systems	Room 4 Air Quality Modelling	Room 5 Environmental Impacts of Information Technology	Room 6 * GI Workshop: Sustainable Information Society	Room 7 Geographic Information Systems 2	Room 8 Environmental Communication <i>Information Distribution</i>	
20:00	'Reception of the Mayor of Vienna' at the Vienna City Hall							

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entrance Lichtenfelsgasse, written invitation

*in German only



Wednesday, Sept. 25th

Day 1, 9:30-13:00

Program

Hall 1

*Kneucker R., Kraus K.,
Pillmann W.*

9:30

Keynote Presentations

Welcome

Schmidt-Bleek F.

10:00

Environmental Information and Sustainability in Perspective

Boch W.

10:20

Environmental Information Services for Citizens

Pillmann W.

10:40

Modelling European Environmental Communication – Information Flows Supporting Decisions towards a Sustainable Development

Room 2

Environmental Informatics Applications

Chair Person: *W. Geiger*

*Kazakos W., Valikov A.,
Schmidt A., Lehfeldt R.*

11:30

Automation of Metadata Repository Development with XML Schema

*Campos dos Santos J.,
de By R.*

11:50

XML-based Metadata Management for Biological Data

*Lenz C., Isenmann R.,
Marx-Gómez J., Krüger M.,
Arndt H.-K.*

12:10

Standardisation of XML-based DTDs for Corporate Environmental Reporting: Towards an EML

Schlenzig C.

12:30

The MESAP Software for the German Emission Inventory

Room 3

Water – Monitoring

Chair Person: *N.N.*

*Gnauck A., Heinrich R.,
Luther B.*

11:30

Water Quality Management of a Sub-Watershed of the River Elbe

Schwarz U., Jensen S.

11:50

A Floodplain Inventory for the Danube River Basin Based on GIS and Satellite Technologies, with a Special Focus on Geo-referenced Digital Videography

*Pečar-Ilić J., Ružić I.,
Skočir Z.*

12:10

Object-relational Database as a Data Source for Interactive Dynamic Web Application

*Dreher J., Fuchs M.,
Kruszewski A., Niedbala J.,
Niwinski J.*

12:30

A Hydrological Monitoring, Forecasting and Warning System for Poland



Day 1, 9:30-13:00

Wednesday, Sept. 25th

Room 6 → Workshop

*Riekert W.-F.,
Tochtermann K.*

11:30

**Hypermedia for Environmental Protection:
Environmental Information in the Web
Umwelthinformation im Internet (in German only)**

Chair Person: *K. Tochtermann*

Hypermedia im Umweltschutz: Ein Thema kommt an im
Fachausschuss Informatik im Umweltschutz

Manderfeld C.

11:50

Umwelthinformationen im Internet – Ein „State of the Art“-
Bericht

*Behrens S., Nikolai R.,
Kruse F., Karschnik O.*

12:10

Informationsvernetzung am Beispiel des WWW-UDK

Schauer T.

12:30

From Information Overflow to Interaction Challenges for
Environmental Information Management

Room 7

Fehr R.

11:30

Environment and Health

Chair Person: *M. Neuberger*

Environmental Health Information Management: Selected
Developments of Potential Relevance for the European
Perspective

Fülöp G.

11:50

„Environmental“ and other Determinants of Health –
Conclusions from the Austrian Health Information System
(ÖGIS)

Briggs D., Gulliver J.

12:10

Modelling Journey-time Exposures to Traffic-Related Air
Pollution

Beale L., Briggs D.

12:30

A GIS-based Route Mapping Tool for Disabled Access in
Urban Environments

Room 8

*Isenmann R., Lenz C.,
Müller-Merbach H.*

11:30

Environmental Communication – Digital Media

Chair Person: *M. MacDonell*

The Future of Corporate Environmental Communication:
Trends, Contents, Media, Technologies

Naumann S.

11:50

Supporting Regional Sustainable Development by IT-
Assisted Communication and Cooperation

Kremers H.

12:10

Sociology of Agents in Sustainable Development

Saarenmaa H.

12:30

Making the World's Biodiversity Data Available - The
Global Biodiversity Information Facility

Wednesday, Sept. 25th

Day 1, 14:00-15:30

Room 2

Environmental Information 1

Chair Person: *F. Scholles*

<i>Knoflacher M., Kopcsa A., Dumreicher H., Kolb B.</i>	14:00	Integrated Method for Extraction of Environmental Information from Research Reports
<i>Knol O., ten Brink B.</i>	14:20	INIS, an Information System to Support the Calculation of the Natural Capital Index (NCI) in the Netherlands
<i>Ruzicka R.</i>	14:40	eHIS InterStore: E-Commerce with Environmental Data
<i>Stuffer S., Rother M., Clesle F.-D.</i>	15:00	Contributions to an On-line Exchange of Environmental Data

Room 3

Water – European Framework

Chair Person: *I. Ružić*

<i>Vogel W.</i>	14:00	The EU Water Framework Directive – A Challenge for Information Management
<i>Kämpf C., Brudy-Zippelius T., Liebert J., Ihringer J.</i>	14:20	Operable Water Quantity Model System to Support Water Quality Management in a River Sub-Basin
<i>Usländer T., Bonn G.</i>	14:40	Layered Information System Architecture for the Implementation of the European Water Framework Directive
<i>Haase M., Braun P., Kröger J., Stegmaier A.</i>	15:00	A GIS-based Information System for Managing and Analysing Profile Information for the Use in the Water Management Authorities within the State of Baden-Württemberg

Room 4

Measurement Networks

Chair Person: *N.N.*

<i>Schimak G.</i>	14:00	Ambient Air Quality Data Management and Data Integration
<i>Wald L. Et al.</i>	14:20	SoDa: A Project for the Integration and Exploitation of Networked Solar Radiation Databases
<i>Hürster W.</i>	14:40	Computer Networks for Crises Management in Case of Environmental Disasters and Related Types of Threats
<i>Skritek P., Lukasz F., Din K., Hodi T., Stadler H.</i>	15:00	Environmental Data-transmission Using Low Earth Orbit Satellites

Room 5

Web Portals

Chair Person: *M. Schreiber*

<i>Hartmann J., Stuckenschmidt H.</i>	14:00	Automatic Metadata Analysis for Environmental Information Systems
<i>Jarvis C., Kupiec J.</i>	14:20	Accessing Public Sector Environmental Data & Information: Development & Demonstration of a National Portal



Day 1, 14:00-15:30

Wednesday, Sept. 25th

<i>Radetzki U., Alda S., Bode T., Cremers A.</i>	14:40	First Steps in the Development of a Web Service Framework for Heterogeneous Environmental Information Systems
<i>Barszczyńska M., Grela J., Kubacka D., Łasut E.</i>	15:00	The Polish Implementation of AQUADOC-INTER Project
Room 6 → Workshop		
<i>Keitel A., Ebel R., Mayer-Föll R., Dombek T., Schultze A., Westbomke J., Haase M.</i>	14:00	Ein Metadatenkonzept für das Umweltinformationssystem Baden-Württemberg
<i>Jessen H., Schneberger S.</i>	14:20	Der Umweltatlas Schleswig-Holstein
<i>Kalasek R., Riedl L., Kramer K.</i>	14:40	FIS – the Special Information System of the Vienna Municipal Department for Environmental Protection. A Flexible Internet-based System for Environmental Data
<i>Weihls E.</i>	15:00	Webservices: Der Thesaurusdienst des Umweltobjekt-katalogs (UOK) im Internet als XML-Anwendung
Room 7		
<i>Knetsch G., Schröder W.</i>	14:00	Use of GIS and Statistics for an Environmental Monitoring System in Germany
<i>Flacke J.</i>	14:20	IS3D - An Information System for Sustainable Settlement Development
<i>Schönhuber P., Patek M.</i>	14:40	Management of Torrent Catchment Areas Between Natural Hazards Prevention and Ecological Development Perspectives
<i>Banko G., Aubrecht P.</i>	15:00	The European Initiative CLC2000 and its Implementation in Austria Using Mobile Technologies
Room 8		
<i>Laihonen P., Salo J., Kalliola R.</i>	14:00	The Clearing-House Mechanism and the Global Biodiversity Information Facility: Is there a Common Future?
<i>Schlatter A.</i>	14:20	Corporate Environmental Dialogue – Understanding the Social Communication Process as a Key Success Factor for Real Change and Improvements
<i>Peinel G., Rose T., Sedlmayr M.</i>	14:40	Air Quality Portals - Designing Citizen-centred Supply Chains for the Dissemination of Air Quality Information
<i>Buurman K., Simons S.</i>	15:00	Dataflow Visualisation: Communicating, Planning and Tracing the Integrated Environmental Assessment Process

Wednesday, Sept. 25th

Day 1, 16:00-18:00

Room 2

Engelmann A., Eriksson H.-B., Hallbäckén L., Morén A.-S., Nisell J., Tuoremaa L., Wiederholm T.

16:00

Schulze B.

16:20

Flor E., Freitag U., Hřebíček J., Jančárik A., Karigl B., Lacuška M., Scheibengraf M., Sluka J.

16:40

Mochty F., Wolfslehner E., Rosenberger E., Steiner G.

17:00

Freudenschuß A., Tulipan M., Huber S., Ackerl W., Schwarz S.

17:20

Room 3

Konieczny R., Siudak M., Barszczyńska M.

16:00

Harju K., Etelämäki L.

16:20

Wismer D.

16:40

Bazartseren B., Hildebrandt G., Holz K.-P.

17:00

Room 4

Kaiser A., Langer M., Mirtl M., Scheifinger H., Spangl W.

16:00

Rau G., Baumann K., Polreich E., Langer M.

16:20

Garcia J., Colosio J., Jamet P.

16:40

Reis S., Nitter S., Friedrich R.

17:00

Room 5

Environmental Information 2

Chair Person: *R. Güttler*

A Web-based Information Service for the Follow-up of Swedish Environmental Objectives

Enterprise Resource Planning Systems as a Platform for Managing Corporate Environment, Health and Safety Processes Shown by the Example of SAP EH&S

First Steps and Experiences in European Co-operation for Waste Management

Electronic Data Management in Austrian Waste Management Act 2002

Interactive Evaluation Module for Soil Quality Data – An Application within the Austrian Soil Information System BORIS

Water – Information Systems

Chair Person: *W. Vogel*

Flood Knowledge and Sharing of Experiences via Internet

GIS and Water Supply

Data Warehouse and Web Interface for Water Quality Data

Hydroinformatic Web Application and Web Service for Real-time Water Level Presentation and Short-term Prediction

Air Quality Modelling

Chair Person: *G. Schimak*

Analysis of Long-range Air Pollutant Transport Using Trajectory Residence Time Statistics

Transport Modelling Applications for Different Scales

Air Quality Indexes

On the Use of Abatement Cost Curves in Integrated Assessment Modelling – Implications of Dealing with Multi-pollutant Multi-effect Problems

Environmental Impacts of Information Technology

Chair Person: *R. Waschkowski*



Day 1, 16:00-18:00

Wednesday, Sept. 25th

<i>Lahser K., Dompke M., Weigmann U.</i>	16:00	Roadmap of the Prospects of Shaping the Development of Information and Communications Technologies
<i>Dworak T., Langrock T.</i>	16:20	Towards more Environmentally ICT-products: Could Evaluation of Policy Instruments Contribute?
<i>Schechtner K., Nowotny B.</i>	16:40	Indicators Accompanying the Introduction of Transport Telematics Systems on National Level
<i>Karatzas K., Moussiopoulos N. et al.</i>	17:00	ENV-e-CITY Environmentally Viable Electronic City
<i>Ruzicka R.</i>	17:20	Pocket eHIS - Mobile Access to Environmental Data (product presentation - Simutech)
Room 6		Sustainable Information Society (in German only)
→ GI Workshop		
<i>Göhring W., Hilty L., Isenmann R., Paetau M. et al.</i>	16:00	GI Arbeitskreis "Nachhaltige Informationsgesellschaft" GIANI
Room 7		Geographic Information Systems 2
Chair Person: <i>P. Collotte</i>		
<i>Netherer S., Pennerstorfer J., Kalasek R., Riedl L.</i>	16:00	Spatial Analysis in Forest Protection Using the Visual Modelling Tool MapModels
<i>Almer A., Zeiner H., Derler C., Stelzl H., Luley P.</i>	16:20	National Park Information System
<i>Hansen C., Tolotti M., Ettinger R., Thies H., Tait D., Psenner R.</i>	16:40	The Application of Geographic Information Science (GIS) for Data Synthesis and Evaluation of Remote High Mountain Lakes in the Lake District Tyrol (Austria & Italy)
<i>Fitzke J., Müller M., Greve K.</i>	17:00	Environmental Data Infrastructures
<i>Diamandakis M., Prastacos P.</i>	17:20	Flood-View: A Library of GIS Procedures for Visualizing Flood Models Results
Room 8		Environmental Communication – Information Distribution
Chair Person: <i>H. Kremers</i>		
<i>Péti M.</i>	16:00	Environmental Information in the Regional Development Decision Making
<i>Maguire M.</i>	16:20	User Requirements and Prototyping for Forest and Climate Change Information Systems
<i>Arnfolk P.</i>	16:40	The Role of ICT Based Communication from a Pollution Prevention Perspective
<i>Orłowski C., Tubielewicz S.</i>	17:00	Integration of Environmental IT Projects on the Example of Aidair and Ecosim
<i>Kreeb M., Schulz W., Krcmar H., Gutterer B., Burschel C., Rudel A.</i>	17:20	Implementing an Environmental Management Web-Portal

Thursday, September 26, 2002

September 25-27, 2002



EnvirolInfo Vienna 2002

Overview - Thursday

8:30-9:30	Lecture hall 1 Keynote Presentations: Eberhard Seifert (Wuppertal Inst.); Joseph Alcamo (Univ. Kassel)							E X H I B I T I O N
9:30-11:00	Room 2 Decision Support Systems	Room 3 Environmental Information Systems 1	Room 4 Environmental Education 1	Room 5 Environmental Management Applications	Room 6 * Workshop: Hypermedia for Environmental Protection 3	Room 7 Remote Sensing		
11:00-11:30	Coffee							
11:30-12:30	Poster session Network Building Opportunity							
12:30-13:30	Lunch							
13:30-14:00	Keynote Presentations:					Room 7 Ken Morgan (Eco-Infirma)	Room 8 Stefan Jensen (EEA)	
14:00-15:30	Room 2 * Workshop: Decision Support Facts	Room 3 Environmental Information Systems 2	Room 4 Environmental Education 2	Room 5 Environmental Management Communication	Room 6 * Workshop: Hypermedia for Environmental Protection 4	Room 7 Eco-Infirma Special Session 1	Room 8 eEIONET Work Conference 1	
15:30-16:00	Coffee							
16:00-18:00			Room 4 * Workshop: Environmental Education	Room 5 Environmental Management Strategies	Room 6 * Workshop: Hypermedia for Environmental Protection 5	Room 7 Eco-Infirma Special Session 2	Room 8 eEIONET Work Conference 2	
18:15-19:00	Room 7 FA 4.6 Fachausschuss Sitzung TC 4.6 "Informatics for Environmental Protection"							
20:00	Dinner at Technical University							

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 * in German only



Day 2, 8:30-11:00

Thursday, Sept. 26th

Hall 1

Keynote Presentations

Chair Person: *W. Pillmann*

Seifert E. 8:30 Challenges and Approaches to Sustainability Communication in the Information Society

Alcamo J. 9:00 Global Change Meets Global Policy: A New Impulse for Global Environmental Informatics

Room 2

Decision Support Systems

Chair Person: *W. Geiger*

Denzer R., Güttler R., Hell T., Schlobinski S., Swayne D. 9:30 An Architecture for Integrated Spatial Decision Support Systems

Endejan M. 9:50 A Software Architecture for Integrated Assessment Models – Design and Implementation

Peralta P. 10:10 Interdisciplinary Support Tool for Decision Makers in the Atlantic Forest of Southern Brazil

Strobel M., Enzler S., Scheide W., Pfennig R., Kcmar H. 10:30 Integrated materials reporting based on ERP systems (comparison : SAP R/3 and ORACLE environment)

Room 3

Environmental Information Systems 1

Chair Person: *R. Nikolai*

Düppeier C., Geiger W. 9:30 Theme Park Soil: A Case Study for Using Template Technology in Web-based Environmental Information Systems

Roenick C. 9:50 Information Systems for the Protection of the Environment on a Municipal Level – From Supporting Execution to an Environmental Information System for Administration and the Public

Gömann H., Julius C., Kreins P. 10:10 Quantifying Impacts of Different Agri-environmental Policies on the Environment Using the Regional Agri-environmental Information System RAUMIS

Lukacs G., Otterstätter A., Hofmann C., Lienau G., Neumann H., Schuchardt V., Weber D. 10:30 Water Management Information System of the State of Lower Saxony

Room 4

Environmental Education 1

Chair Person: *U. Bosler*

Herget M. 9:30 Complexity: A Challenge for Education for Sustainability

Allinson J., Rössig M., Scholles F., Winter J. 9:50 Setting Up a Web-supported Environment for Distance Learning – The MICCPAM Experience

Schlatter-Schober P. 10:10 Environmental Education at School – How to Manage the Change Process towards a Real Ecological and even Sustainable Behaviour of Schools

Thursday, Sept. 26th

Day 2, 8:30-11:00

Beckel L.	10:30	Visualisation of Environmental Problems for Educational Purposes
Room 5		Environmental Management – Applications
		Chair Person: <i>E. Seifert</i>
Rieg R., Jürgens G.	9:30	IT-supported Evaluation of Eco-efficiency Potentials in Chemical Processes Discussion of Experiences in the Pharmaceutical Industry
Schultmann F., Engels B., Rentz O.	9:50	Cleaner Technology by Using Flowsheet-Simulation for Decision Support in Process Industries
Kakaras E., Giannakopoulos D., Hatzilau C., Angelopoulou A.	10:10	A Decision Support Tool for the Selection of Clean Technologies in SME's
Campos L., Selig P., Ghizzo M.	10:30	A Model of Environmental Management System (EMS) Using the Balanced Scorecard (BSC)
Room 6		Hypermedia for Environmental Protection: Environmental Management
→ Workshop		Umweltmanagement (in German only)
		Chair Person: <i>R. Mayer-Föll</i>
Isenmann R.	9:30	Integrated Corporate Environmental Reporting: Strategies for Employing Internet and Hypermedia Productively
Keitel A., Reimann A., Franke W., Neidlinger M., Haase M.	9:50	Der Umweltzustandsbericht „Umweltdaten 2000“ des Landes Baden-Württemberg für das WWW
Schulz K.-P., Keitel A., Dombek T., Westbombke J., Haase M., Otterstätter A.	10:10	WAABIS Objektartenkatalog online
Korduan P.	10:30	Beitrag zur Verbesserung der Zugänglichkeit von Umweltrelevanten Daten aus dem Precision Farming
Room 7		Remote Sensing
		Chair Person: <i>K. Kraus</i>
Trommler M., Wagner W., Scipal K., Kidd R.	9:30	Scientific Information Portal in the World Wide Web: The Global Soil Moisture Archive 1992 - 2000 from ERS Scatterometer Data
Ries C., Pillmann W., Kellner K., Stadler P.	9:50	Urban Green Space Management Information – Processing and Use of Remote Sensing Images and Scanner Data
Piringer M., Baumann K.	10:10	Remote Sensing in Urban Areas – Recent Advances
Chevrel S., Belocky R., Grösel K.	10:30	Monitoring and Assessing the Environmental Impact of Mining in Europe Using Advanced Earth Observation Techniques - MINEO

EnviroInfo Vienna 2002 - Program Overview

Wednesday September 25, 2002				Thursday September 26, 2002				Friday September 27, 2002			
09:30	11:30	14:00	16:00	08:30	13:30	16:00	08:30	12:00	14:00		
Opening, Conference Introduction Keynote Presentations	Environment & Health	Environmental Information		Keynote Presentations	Environmental Information Systems		Keynote Presentations	Environmental Statistics	Environmental Statistics		
	Environmental Informatics Applications	Geographic Information Systems			Remote Sensing	Special Session: Eco-Infoma Foundation – Integrating Information		Modelling	Simulation		
	Environmental Communication <i>Digital Media – Diabgues – Information Distribution</i>				Environmental Education	Environmental Education		* Workshop: Environmental Education	Climate Change	Transport	
	Water <i>Monitoring – European Framework – Information Systems</i>				Environmental Management Applications	Environmental Management Communication – Strategies		Networks for Sustainability	Workshop: Landscape Structures		
		Web Portals	Environmental Impacts of Information Technology			eEIONET Work Conference: European Environmental Networks		eEIONET	eEIONET		
	* Workshop: Hypermedia for Environmental Protection		* GI Workshop: Sustainable Information Society		* Workshop: Hypermedia for Environmental Protection			* Workshop: Hypermedia for Environmental Protection			
		Measurement Networks	Air Quality Modelling		Decision Support Systems	* Workshop: Decision Support Facts					
	Exhibition				Exhibition				Exhibition		
Keynote Presentations Poster Session / Exhibition Network Building Opportunity Round Table - Summarising EnviroInfo Vienna 2002 Best Paper Award											



Day 2, 13:30-15:30

Thursday, Sept. 26th

Room 7

Keynote Presentations

Morgan K.

13:30

Chair Person: *L. Newland*

Advances in Remote Sensing for Smart Environmental Mapping

Room 8

Keynote Presentations

Jensen S., Saarenmaa H.,
Jock M.

13:30

Chair Person: *W. Boch*

Infrastructure and Tools for a European Environmental Information System – The Contribution through Reportnet

Room 2
→ WorkshopDecision Support Facts
(in German only)

Wittmann J. et al.

14:00

Chair Person: *A. Gnauck*

Diskussion: Nutzbarkeit Entscheidungsunterstütz. Systeme

Room 3

Environmental Information Systems 2

Braun R., Russ M.,
Krcmar H.

14:00

Chair Person: *J. Hřebíček*

Web-based Tools for the Environmental Performance Indicator

Bareth G., Zhenrong Y.,
Doluschitz R.

14:20

Set-up of a GIS-based Regional Agricultural Environmental Information System (RAEIS) in China

Haselberger R., Ondra N.

14:40

GEORD – An Open Data Warehouse Architecture for Environmental Data

Roy W., Assem A.

15:00

Development of Monitoring and Assessment Database System (EDMRAS) for War Related Environmental Damages in Kuwait

Room 4

Environmental Education 2

Simon S.

14:00

Chair Person: *B. Page*

ICTs as Innovative Learning Platforms – the Experience of the Virtualis

Gerbilsky L.,
Staroseletska O.

14:20

Knowledge Integration, Environmental Informatics and Environmental Education

Lessa I.

14:40

Computational and Media Resources in Adult Environmental Education: A Case Study to Automobilist Sector in Curitiba's Metropolitan Region - Brazil

Room 5

Environmental Management –
Communication

Wagner M., Schaltegger S.

14:00

Chair Person: *A. Schlatter*

The Influence of Certified Environmental Management Systems on the Environmental and Economic Performance of Firms

Thursday, Sept. 26th

Day 2, 13:30-15:30

*Pecher A., Tschulik A.,
Martinuzzi A.*

14:20

EMAS – An Instrument for Environmental Communication (Examining EMS-evaluation Studies)

Gondran N., Brodhag C.

14:40

Proposition of a Method to Distribute Environmental Information to SMEs – Application to the French Context

Breuer C., Martinuzzi A.

14:30

An Internet-accessible Databank of Environmental Measures as a Controlling, Evaluation and Communication Tool for Environmental Programs

Room 6
→ Workshop

**Hypermedia for Environmental Protection:
GIS Applications**
Einsatz geograph. Informationssysteme (in German only)

Chair Person: *U. Freitag*

Arndt H.-K., Günther O.

14:00

Stoff- und Energiebilanzierung von Organisationen: Eine Synthese aus DIN EN ISO 14031 und DIN EN ISO 14040-14043

Hans C., Schnatmeyer M.

14:15

Web-supported Knowledge-based Decision-making for the Disposal of WEEE

Melle M.

14:45

Verteilte geowissenschaftliche Modellberechnung im Internet

Göbel S., Jasnoch U.

15:00

InGeo Information Center: Personalisierter Zugang zu Geodaten-Archiven

Room 7
→ Eco-Infoma

**Eco-Infoma Special Session 1:
Integrating Information for Environmental Decisions**

Chair Persons: *M. MacDonell, L. Newland*

Bowlus D.R.

14:00

Dealing with Non-Verbal Communication Challenges Associated with the Fear of Anthrax Exposure

Armbruster W.

14:20

Partnerships for Risk Communications: Environmental, Agricultural and Food Issues

*Tochtermann K., Sabol V.,
Kienreich W., Granitzer M.,
Becker J.*

14:40

Intelligent Maps and Information Landscapes. Two New Approaches to Support Search and Retrieval of Environmental Information Objects

Burgess T.

15:00

Biosphere 2 as a Case Study in Global Change: Educational Lessons Learned

Room 8
→ eEIONET

**eEIONET Work Conference:
Basics for Networking**

Chair Person: *L. Hilty*

Heinlaid J.

14:00

Metadata, Schema Registries and Data Dictionary in Reportnet

Palosou E.

14:20

Country Related Services in Reportnet

Carotenuto M., Marinelli M.

14:40

CARISMA – A Tool for Sharing Environmental Information Resources

Kraszewski A.

15:00

ekoInfoNet Information System for State Monitoring of Environment in Poland



Day 2, 16:00-18:00

Thursday, Sept. 26th

<p>Room 4 → Workshop</p>		<p>Environmental Education (in German only)</p> <p>Chair Person: <i>J. Wittmann</i></p>
<p><i>Wittmann J.</i></p>	16:00	Learning Systems for Environmental Informatics
<p><i>Bach M., Bergstedt S., Himstedt K., Wiegrefe S., Wittmann J.</i></p>	16:20	The Concept for a Flexible Authoring and Learning Environment
<p>Room 5</p>		<p>Environmental Management – Strategies</p> <p>Chair Person: <i>J. Marx-Gomez</i></p>
<p><i>Coelho C., Fialho F., Rebelo L., Santana C., Ferreira E.</i></p>	16:00	Prize Competitions as a Source of Environmental Strategies: Case Study – Premium Expressão de Ecologia
<p><i>Geldermann J., Schollenberger H., Rentz O.</i></p>	16:20	Linking Mass and Energy Flow Analysis with Time Management
<p><i>Opierzynski R., Müller F.</i></p>	16:40	Environmental Performance Indicator Systems for Industries: Experiences and Applications in ASEAN Countries
<p><i>Beucker S., Lang C., Rey U., Orbach T.</i></p>	17:00	Computer Aided Resource Efficiency Accounting: Assessing and Communicating Environmental Impacts and Costs along the Supply Chain
<p><i>Quack D., Oley M.</i></p>	17:20	Environmental Advantages of Video Conferencing Systems – Results from a Simplified LCA
<p>Room 6 → Workshop</p>		<p>Hypermedia for Environmental Protection: Technical Methods and Personalisation Fachverfahren und Personalisierung (in German only)</p> <p>Chair Person: <i>G. Knetsch</i></p>
<p><i>Hilbring D.</i></p>	16:00	3D-Grundwasseranalyse von Bauvorhaben mittels GeoPro ^{3D}
<p><i>Storch H.</i></p>	16:20	Personalisierung von Umweltinformationen: Konzeptionelle Anforderungen an Mobile Personalisierte Dienste in Zeit-räumlichen Kontexten auf der Basis von Individuellen Umweltbewertungsmodellen
<p><i>Mirtl M., Schentz H.</i></p>	16:40	Strukturen und Funktionen zur Abbildung interdisziplinärer Langzeitprojekte im Bereich von Ökosystem-Monitoring und -Forschung: Der Weg zum Hauptmenü von MORIS / Das objektrelationale Softwarepaket MORIS

Thursday, Sept. 26th

Day 2, 16:00-18:00

Room 7
→ Eco-Infoma

Eco-Infoma Special Session 2:
Integrating Information for Environmental
Decisions

Chair Persons: *K. Morgan, M. MacDonell*

<i>Whicker W., MacDonell M.</i>	16:00	Radioactively Contaminated Sites: Getting Scientific Information into Cleanup Decisions
<i>Waggitt P.</i>	16:20	Communicating with Traditional Landowners on Uranium Mine Rehabilitation
<i>Wells S.</i>	16:40	Superfund's Community Involvement Program: Building a Sustainable Program
<i>MacDonell M.</i>	17:00	Integrating Environmental and Health Data to Assess Cumulative Risks
<i>Hutzinger O., Newland L., Ditmars J., Voigt G.</i>	17:20	Panel: Environmental Information & Communication: Where Do We Go from Here?

Room 8
→ eEIONET

eEIONET Work Conference:
Agents, Communication and Ontologies

Chair Person: *H. Streuff*

<i>Haastrup P., Würtz J.</i>	16:00	Environmental Management of Water Data in EU Using Agent Technology
<i>Angrick M., Bös R., Rüter M., Bandholtz T.</i>	16:20	Semantic Network Services (SNS)
<i>Briesen M., Hofmann C., Otterstätter A., Nikolai R., Mirtl M., Schentz H., Vogel W., Weber K.</i>	16:40	Data Integration in the Field of Environmental Monitoring
<i>Visser U., Vögele T., Schlieder C.</i>	17:00	Spatio-Terminological Information Retrieval Using the BUSTER System
<i>Kruse F., Karschnick O., Spöringer A., Eichler M., Behrens S.</i>	17:20	The UDK, Present Status and Future Development - An Overview

Room 7
→ FA 4.6

18:15
-19:15

FA 4.6 Fachausschusstreffen
TC 4.6 "Informatics for Environmental Protection"

Gäste sind willkommen!
Guests are welcome!

Friday, September 27, 2002

8:30-9:30	Lecture-hall 1 Keynote Presentations: Mojib Latif (Max Planck Inst.); Gerard Cunningham (UNEP)					E X H I B I T I O N
9:30-11:00	Room 2	Room 3	Room 4	Room 7	Room 8	
	Climate Change	Modelling	Networks for Sustainability	Environmental Statistics 1	eEIONET Work Conference 3	
11:00-11:30	Coffee					
11:30-12:00	Poster session, Network Building Opportunity					
12:00-13:00	Room 2	Room 3	Room 4	Room 7	Room 8	
	Transport	Simulation	Workshop: Landscape Structures	Environmental Statistics 2	eEIONET Work Conference 4	
13:00-14:00	Lunch					
14:00-14:30	Lecture-hall 1 Franz Josef Radermacher (FAW Ulm)					
14:30-15:30	Round Table - Summarising EnvirolInfo Vienna 2002					
15:30-15:45	Best Paper Award - Environmental Informatics Award					
15:45	Farewell					

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Friday, Sept. 27th

Day 3, 8:30-11:00

Hall 1

Keynote Presentations

		Chair Person: <i>W. Wagner</i>
<i>Latif M.</i>	8:30	Communicating Climate Research
<i>Cunningham G.</i>	9:00	Building a Global Framework for Environmental Knowledge

Room 2

Climate Change

		Chair Person: <i>M. Latif</i>
<i>Biegger S., Hoelzle M., Frei U., Nuesch D.</i>	9:30	Bringing Glacier Simulations to the Public Using Interactive 3D Visualisation
<i>Wagner W., Kidd R., Nilsson S., Jonas M., Hoffman C.</i>	9:50	Verification of Land-use, Land-use Change and Forestry Activities as Specified by the Kyoto-Protocol: The Role of Remote Sensing and GIS within a Scientific Verification Concept
<i>Fleury A., Enzensberger N., Fichtner W., Rentz O.</i>	10:10	Energy System Analysis Models for Climate Change Mitigation and Clean Air Strategies
<i>Solberg R.</i>	10:30	EuroClim: Monitoring the Cryosphere to Improve Climate Change Modelling

Room 3

Modelling

		Chair Person: <i>B. Page</i>
<i>Gnauck A., Luther B., Heinrich R.</i>	9:30	Modelling and Simulation of Internal Pollution of Shallow Lakes
<i>Probst F., Lutz M., Kuhn W.</i>	9:50	Ontologies for Plant Communities – A New Approach to Knowledge Representation in Vegetation Science
<i>Schönke U., Köchel P.</i>	10:10	A Model for the Utilisation of Natural Resources for Silviculture
<i>Deilmann C.</i>	10:30	The German Housing Stock 2025 – Modelling the Effects of Sustainability - Scenario with BASiS II

Room 4

Networks for Sustainability

		Chair Person: <i>N.N.</i>
<i>Reents G.</i>	9:30	Carpooling in Commuter Traffic Aided by an Internet Communication Platform
<i>Posch A.</i>	9:50	A Management Information System (MIS) for 'Sustainability Networks'
<i>Kolibius M., Nachtmann M.</i>	10:10	Environmental Online-marketing - Strategies and Success Factors
<i>Bußwald P., Niederl F., Jakubowicz D., Schuh B.</i>	10:30	Futuro – A Sustainable Consumption Network



Day 3, 8:30-11:00

Friday, Sept. 27th

Room 7

<i>Esterby S.</i>	9:30
<i>Kolehmainen M., Junninen H., Niska H., Patama T., Ruuskanen A., Tuppurainen K., Ruuskanen J.</i>	9:50
<i>Grimvall A.</i>	10:10
<i>Libiseller C., Nordgaard A.</i>	10:30

Environmental Statistics 1

Chair Person: *K. Voigt*

Environmental Statistics in the Information Age

Missing Data Toolbox for Air Quality Datasets

Estimation of Human Impact in the Presence of Natural Fluctuations

Variance Reduction for Trend Analysis of Hydrochemical Data in Brackish Waters

Room 8

→ eEIONET

<i>Batschi W.-D., Felluga B., Legat R., Plini P., Stallbaumer H., Zirm K.</i>	9:30
<i>Hradec J.</i>	9:50
<i>Bliki J.</i>	10:05
<i>Roug S., Norup B.</i>	10:20
<i>Bulandra M.</i>	10:45

eEIONET Work Conference:
Tools for Common NeedsChair Person: *S. Jensen*

„SuperThes“: A New Software for Construction, Maintenance and Visualisation of Multilingual Thesauri

A Search Portal: Query-Metainformation-Information Chain

Interactive Mapping in EIONET

Data Repositories for Reporting

European Portal Toolkits

Friday, Sept. 27th

Day 3, 12:00-13:00

Room 2

Transport

Chair Person: *W. Kovacic*

<i>Heich H.-J., Tomassini M., di Taranto C.</i>	12:00	The HEAVEN Approach to Environmental Assessment of City Wide TDMS
<i>Nowotny B., Maurer P., Schechtner K., Winiwarter W., Zajicek J.</i>	12:20	Floating Car Data as Data Source for Modelling of Air and Noise Pollution in Regions with High Traffic Density
<i>Söderholm K., Söderholm P.</i>	12:40	Scientific Controversies as a Source of Environmental Information: The Case of Sulphate Odour from a Swedish Paper Mill in the Early 20th Century

Room 3

Simulation

Chair Person: *A. Gnauck*

<i>Huber S., Bareth G., Doluschitz R.</i>	12:00	Integrating the Process-based Simulation Model DNDC into GIS
<i>Prastacos P.</i>	12:20	ANFAS: A Decision Support System for Simulating River Floods
<i>Köster F., Finke J., Frank K., Sonnenschein M.</i>	12:40	An Information System for the Management of Ecological Simulations

Room 4
→ Workshop

Landscape Ecology, Remote Sensing and Graph Theory

Chair Person: *W. Schneider*

<i>Grillmayer R.</i>	12:00	Landscape Structure Model
<i>Schneider W.</i>	12:20	Knowledge Based Methods of Analysis of Remotely Sensed Images for Landscape Ecology
<i>Steinwendner J.</i>	12:40	Graph-theoretic Issues in Remote Sensing and Landscape Ecology

Room 7

Environmental Statistics 2

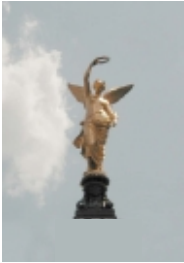
Chair Person: *S.R. Esterby*

<i>Hanauer J.</i>	12:00	NAMEA AUSTRIA
<i>Walde J., Tasser E.</i>	12:20	Identifying Significant Determinants for Canopy Development on an Alpine Test Site by means of Artificial Neural Networks
<i>Kapfer M., Osinski E., Kantelhardt J.</i>	12:40	Estimation of Costs for Maintaining Landscape Elements by the Example of Baden-Wuerttemberg



Day 3, 12:00-16:00

Friday, Sept. 27th

<p>Room 8 → eEIONET</p>	<p>12:00</p>	<p>eEIONET Work Conference Networking: Web Services for International Reporting</p> <p>Chair Person: <i>S. Jensen</i></p> <p>Panel to Enable the Consortium Building for a Proposal to DG InfoSoc under the 6th FWP</p>
<p>Hall 1 <i>Radermacher F.</i></p>	<p>14:00</p>	<p>Keynote Presentation</p> <p>Chair Person: <i>G. Cunningham</i></p> <p>Balance or Destruction: A Global Eco-social Market Economy as A Key to Sustainable Development</p>
<p>Hall 1</p>	<p>14:30</p>	<p>Round Table – Summarising EnvirolInfo Vienna 2002</p> <p>Chair Persons: <i>C. Johnston, W. Pillmann</i></p>
	<p>15:30</p>	<p>Best Paper Award sponsored by Eco-Infirma Foundation and Farm Foundation</p> <p>Environmental Informatics Award Umweltinformatik-Preis der FA 4.6</p> <p>Chair Person: <i>M. MacDonell</i></p>
	<p>15:45</p>	<p>Farewell</p>

Day 2, 11:30-12:30 and Day 3, 11:30-12:00

Poster Sessions

(with personal presentation)

	<h3>Air Quality Modelling</h3>
<i>Chmielewski A., Tymiński B., Pawelec A., Dobrowolski A., Zimek Z.</i>	Computer Modelling of Air Pollution Control Reactor
<i>Caltabiano R.</i>	Environmental Mobile Monitoring System
	<h3>Climate Change</h3>
<i>Krause R., Buchmann N., Churkina G., Freibauer A.</i>	Development of a Database for Climate Research
	<h3>Decision Support Systems</h3>
<i>Chrysoulakis N., Prastacos P.</i>	Development of a Decision Support System for Technological Risk Management with the Combined Use of Remote Sensing and GIS
<i>Šilberský J.</i>	Environmental Decision Support Systems in Public Administration
<i>Alberton A., Souza E., Ensslin L.</i>	Utilization of the Multiple Criteria Method for Evaluation of the Performance of Plants with Respect to: Safety, Organization and Cleanliness – A Case Study
	<h3>Environmental Communication</h3>
<i>Buonamici R., Buttol P., Masoni P., Misceo M., Naldesi L., Rinaldi C., Sára B., Taraborrelli F.</i>	Databases and Web Site to Support the Diffusion of Integrated Product Policy in Small and Medium Sized Enterprises
<i>Madej P.</i>	Map-based Internet Information Services – Examples of GIS Utilization in Off-line Mode
<i>Burmeister D.</i>	Umweltinformationen und Demokratie
	<h3>Environmental Education</h3>
<i>Hřebíček J., Pitner T.</i>	Environmental Education at the Faculty of Informatics, Masaryk University in Brno
<i>Voss A., Roeder S., Salz S., Hoppe S.</i>	Spatial Discourses in Participatory Decision Making
<i>Boyadjyski G., Dalev P., Tsanov N.</i>	The Environmental Education in the Technical University of Gabrovo, Bulgaria – The Right Path to the Way of Eurointegration



Thursday, Sept. 26th and Friday, Sept. 27th

Environmental Impacts of Information Technology

Nikolai R., Buth K., Koepke T., Vogt G.

The Contribution of Audio Conferences to the Dematerialization of Meetings in the Age of the Web

Loerincik Y., Jolliet O., Norris G.

Life Cycle Environmental Impacts of Internet

Omar S., Grealish G., Roy W.

Assessing Long-term Impact of Oil Burning on the Terrestrial Environment of Kuwait

Environmental Informatics Applications

Cavazza S., Sacconi A.

Telematic Systems in Real-time Management of Integrated Water Resources

Qazzaz B., Abdhaq B., Tamajon D., Rexachs D., Luque E.

A System for Data Collection of Environmental Information

Ráček J.

Workflow of Environmental Administrative Processes in Czech Republic

Stefanakos C., Gerostathis T., Athanasoulis G., Houstis C., Vavalis E.

Building Ontologies of Environmental Applications for a Digital Library of Scientific Collections

Environmental Information

Kubásek M.

EnviWeb and its Role in Public Environmental Communication in the Czech Republic

Steinhage V., Meyfarth S., Arbuckle T., Schröder S., Cremers A., Wittmann D.

Environmental Communication in Biodiversity Information Systems

Asmalyan S., Amirkhanyan M., Aghekyan K., Rapaport J.

Cartographical Database of GIS Model of Distribution of Radioactive Pollution in Case of Emergency in Metsamor Nuclear Power Plant

Lichtblau G.

Das Handbuch der Emissionsfaktoren des Straßenverkehrs in Österreich

Environmental Management

Wieninger H., Listabarth B., Mitrovic M., Pesl B., Hirschvogel C.

Eco-management and Audit Scheme (EMAS) for the Grammar School GRG6, Rahlgasse, Vienna

Khatib C., Marx Gómez J., Pröttsch S., Rautenstrauch C.

A Comparative Eco-balance for Coating Materials with Epoxidised Derivatives

Cappellaro F., Masoni P., Moreno A., Scalbi S.

CASCADE

Day 2, 11:30-12:30 and Day 3, 11:30-12:00

Löfving E., Grimvall A.

Environmental Statistics

A Bayesian Approach to Estimation of Metal Flows in Waste Streams

Saito M., Mori S., Dowaki K.

An Analysis of the Relationships between IT Investments and the Industrial Structure Change in Japan Using Input-Output Tables – Historical Analysis and Future Projection

Sonnenschein M., Vogel U.

Modelling / Simulation

Hierarchical Asymmetric Cellular Automata for Multi-scale Modelling of Ecological and Socio-economic Systems

Tomczak Z.

Possible Applications and Constraints of the ECOSIM Project in the Polish Test Site

Gabrielyan B.

Stock and Fishery Dynamics of *Coregonus lavaretus* of Lake Sevan, Armenia

van Bemmelen J., Fusco L.

Remote Sensing

CLIFF's Recommendations for Flood & Fire Disaster Management