

## Editorial

# Ist nützliche Forschung planbar?

Von 'Big surprises' – unvorhersehbaren, auch unplanbaren Forschungsergebnissen – war an der jüngsten IGBP-Konferenz nahe Tokyo viel die Rede. Dem steht die Flut illusionistischer Versprechen über die 'Nützlichkeit' von geplanten Forschungsarbeiten gegenüber, mit denen weltweit Forscher im Wettbewerb um knappe Forschungsgelder liegen. Wer besser fabuliert hat die Nase vorn.

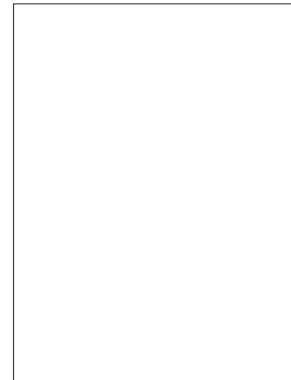
Kürzlich geisterte eine Presseagentur-Meldung durch den Blätterwald, nach der Forscher an einer US-Universität gefunden hätten, dass bis ins Jahr 2050 die Wälder der Erde (...so sie noch existieren...) den vom Menschen emittierten fossilen Kohlenstoff zur Hälfte gebunden haben werden. Eine Zeitungsente? Vor wenigen Tagen bestätigte mir ein US-Kollege, dass dieser Unsinn wirklich verbreitet wurde, und zwar mit einem Zahlenspiel, aus dem ein Aussenseiter diesen Schluss tatsächlich ziehen konnte - man müsse ja schliesslich den Geldhahn pfeifen von dem man lebt. Das Geld wurde auf das Versprechen gegeben, 'carbon sequestration' der Biosphäre bei erhöhtem CO<sub>2</sub> nachzuweisen – etwas, was mit dem untersuchten jungen, rasch wüchsigen Plantagenwald zu beweisen gar nicht möglich ist. Trotzdem ist dieses Experiment von grossem Wert für die Erforschung von CO<sub>2</sub>-Wirkungen auf biologische Systeme, aber dieser Wert liegt in anderen, weniger publikumswirksamen, vielfach nicht vorhersehbaren Bereichen, die mit dieser nicht erfüllbaren Nützlichkeitsbehauptung quasi finanzierbar wurden.

Ueber 90 % aller CO<sub>2</sub>-Anreicherungsexperimente werden heute unter derart künstlichen Bedingungen durchgeführt (z.B. fehlende Artenkonkurrenz, optimale Phosphatversorgung, künstliche Wachstumssubstrate ohne Bodenpilze), dass sie für das, was damit zu ergründen vorgegeben wird, meist gar nicht geeignet sind. Grund dafür ist vielfach nicht etwa der fehlende

Wunsch, es besser zu machen, sondern die Unfinanzierbarkeit realitätsnaher Versuche, schon allein vom räumlichen Massstab her. Trotzdem tragen sie durchaus zum Verständnisprozess bei.

Heute sind zur Geldbeschaffung für die Forschung (zumeist unhaltbare) Nützlichkeitsversprechen so gut wie obligatorisch. In der EU-Forschung ersetzen sie zum Teil bereits die wissenschaftliche Substanz, wobei die meisten Projekte zwar nützlich sind, aber vielfach gar nicht dort, wofür das Geld gesprochen wird. Es gab einen empörenden Aufschrei der Züchtungsgenetiker als in Tokyo tatsächlich jemand aufstand und das Plenum davon zu überzeugen versuchte, dass mit gentechnisch veränderter Photosynthese das programmierte Welthungerproblem der Zukunft zu lösen sei. Welcher Forschungsförderer möchte da nicht gerne Geld geben? Das ist allerdings so, wie wenn jemand meint, mit einem Sportwagen wäre man im Grossstadtverkehr schneller. Das Publikum erfuhr dann auch von den Praktikern, dass die Ertragsforscher seit den 70er Jahren wissen, dass der landwirtschaftliche Ertrag nichts mit der Photosynthesekapazität der Sorten zu tun hat (also nichts mit dem Sportwagen...), sondern, abgesehen vom Agrar-Management, ausschliesslich von der pflanzlichen Wuchsform und Entwicklungsrhythmik bestimmt wird. Modernste 'Supersorten' mit hohem Ertrag, weisen Photosyntheseraten auf, die teilweise sogar niedriger sind als die von Wild- oder alten Landsorten. Trotzdem werden unter diesem 'Deckmäntelchen der Nützlichkeit' beiderseits des Atlantiks viele Millionen an Forschungsmitteln für das 'Herumdoktern' an Chlorophyllkörnern vergeben. Ich unterstelle nicht, dass die Antragsteller wider ihr besseres Wissen handeln. Leider erhöht das aber die Tragik der Komödie.

Wie überspringen wir den Wissensstand von 'Gutachtern' aus der selben 'Kaste', wie die 'Nützlichkeits-



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illusionen' gutmeinender Geldverteiler? Warum brauchen wir heute Katastrophen und vermeintlichen Nutzen um das Verständnis unserer unmittelbaren Mitwelt verbessern zu dürfen? Warum sind realitätsnahe ökologische Experimente so gut wie unfinanzierbar? Warum gibt es solche Hemmschwellen nicht, wenn es darum geht Millionen Lichtjahre tief in den Weltraum oder 'nur' hinter den Mars zu blicken oder die kleinsten Elementarteile der Materie zu sprengen? Versagen die Lobbies? Zu wenig Spektakel? Ein paar Gedanken für die bevorstehende Ferienzeit....

Christian Körner

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## NEWS

### Swiss Biodiversity Forum

Establishing strong links among scientists, practitioners, policy-makers, and the public is the task of the Swiss Biodiversity Forum which was recently founded by the Swiss Academy of Sciences. The Forum will:

- initiate contacts and improve existing communication pathways within the Swiss biodiversity research community and link its efforts to international research programmes.
- establish firm links between researchers and officers working in nature and landscape conservation agencies by (1) transferring important research results from science to practitioners and by (2) passing on current research needs from practitioners to researchers.
- translate and disseminate results from biodiversity research to policy-makers and to the public.

Everyone and every institution working in the field of biodiversity, be it natural scientists studying the level of genes, species or ecosystems, environmental economists, sociologists, museums and collections, nature and landscape officers, NGOs, and monitoring programmes, are invited to draw information from and supply information to the Swiss Biodiversity Forum. The Forum will be in close contact with DIVERSITAS, an international programme of biodiversity sciences, and other biodiversity related organisations such as Clearing House Mechanism Switzerland, EWGRB, Plattform Forschung-Praxis Natur und Landschaft, WSL Extension Service, ProClim-, or Alpenforschung.

To guide the Forum's activities a Scientific Committee was set up, chaired by Prof. Bernhard Schmid, Institute of Environmental Sciences, University of Zurich. The Forum's office is located in Bern, next to the Academy.

Contact: Dr. Daniela Pauli, Swiss Biodiversity Forum, SANW, Bärenplatz 2, 3011 Bern, Tel: 031-312 02 75; e-mail: biodiversity@sanw.unibe.ch; <http://www.biodiversity.unibe.ch>

## PUBLICATIONS

### IPCC Special Report on Aviation and the Global Atmosphere

The Intergovernmental Panel on Climate Change (IPCC) has released a special report on the effect of aviation on the global atmosphere entitled «Aviation and the Global Atmosphere». The report has been developed over the last two years by a group of more than 100 scientists from around the world. A unique aspect of this report is the integral in-

volvement of technical experts from the aviation industry, including airlines and airframe engine manufacturers, alongside atmospheric scientists. This involvement has been critical in producing what IPCC believes is the most comprehensive assessment available of the effects of aviation on the global atmosphere. The report represents the results of unprecedented collaboration between the IPCC and the Scientific Assessment Panel of the Montreal Protocol on Substances that Deplete the Ozone Layer, and provides a detailed assessment of the impact of aircraft engine emissions on climate and atmospheric ozone.

Assuming a mid-range emissions scenario, air travel is projected to grow by about five per cent annually. This report finds that aircraft emit gases and particles altering the concentration of atmospheric greenhouse gases, trigger formation of condensation trails and may increase cirrus cloudiness – all of which contribute to climate change. Radiative forcing attributable to aviation is 3,5% of the total radiative forcing by all anthropogenic activities.

The aviation industry has undergone rapid growth (since 1960 at 9% per year) and projections suggest that the trend is likely to continue. It is, therefore, highly relevant to consider current and possible future effects of aircraft on the atmosphere. The report considers all the gases and particles emitted by aircraft into the atmosphere and the role which they play in climate change, and modification of the ozone layer. It also considers how potential changes in aircraft technology for example introduction of supersonic aircrafts, air transport operations and the institutional, regulatory and economic framework might affect emissions in the future. It describes the state of scientific knowledge together with associated uncertainties.

The «Summary for Policy Makers» of the report can be obtained in English from ProClim. If you wish to receive a copy, please provide us with a self-addressed, stamped envelope (SFr. 1.40) and we will send you a copy free of charge.

### Scientific Assessment of Ozone Depletion: 1998

The World Meteorological Organisation (WMO) has published (together with NOAA, NASA, UNEP and the European Commission) the Scientific Assessment of Ozone Depletion as Report No. 44 of the Global Ozone Research and Monitoring Project. It will be part of the information upon which the Parties of the United Nations Montreal Protocol will base their future decisions regarding protection of the stratospheric ozone layer. The report also includes an updated set of questions that are frequently asked about the ozone layer and their answers. The report is the product of more than 300 scientists who contributed to its preparation and review.

Among the key ozone- and climate-related findings are:

- The total combined abundance of ozone-depleting compounds in the lower atmosphere peaked in about 1994 and is now slowly declining. Total chlorine is declining, but total bromine is still increasing.

- The link between the long-term build-up of chlorine and the decline of ozone in the upper stratosphere has been firmly established.
- Stratospheric ozone losses have caused a cooling of the global lower stratosphere and global-average negative radiative forcing of the climate system.
- Based on past emissions of ozone-depleting substances and a projection of the maximum allowances under the Montreal Protocol into the future, the maximum ozone depletion is estimated to lie within the current decade or the next two decades, but its identification and the evidence for the recovery of the ozone layer lie still further ahead.

The report can be ordered from WMO, Geneva or borrowed from ProClim.

### WCRP-Report: Proceedings of COARE-98

The proceedings of the conference of the TOGA Coupled Ocean-Atmosphere Response Experiment (COARE) at Boulder, Colorado, USA in July 1998 have been published as WCRP report No. 107. During 1992/93 the WCRP programme TOGA (Tropical Ocean Global Atmosphere) conducted the COARE in the warm pool region of the equatorial western Pacific Ocean. The purpose was to improve our understanding of the physical processes involved in coupling the ocean and atmosphere in this climatically important region, and to assemble a comprehensive ocean/atmosphere database for testing and improving coupled models. The conference COARE98 was viewed as a forum for sharing new results with colleagues, and as a catalyst for fresh collaborations. Several important objectives were proposed for COARE98 such as to review progress towards the COARE goals, to synthesize results and assess their impacts, to provide a focus for improvement in climate and numerical weather prediction, or to seek ways to transition COARE datasets and results to CLIVAR and GEWEX. The report (~450 pp) can be borrowed from ProClim.

## MEETING REPORTS

### Biomass Management and its CO<sub>2</sub> Effect – Dreams, Potential and Challenges for the Industry

*Meeting of the Swiss Parliamentary Group on Climate Change*

At the lunch meeting during the spring session of the parliament Christian Körner from the Botanical Institute of the University of Basel presented facts on the CO<sub>2</sub> binding capacity of the biosphere and compared it with the current anthropogenic emissions. Peter Hofer from GEO Partner AG Zürich discussed the potential and the opportunities for the Swiss forestry and wood related industry. The key messages in brief: About half of the anthropogenic

CO<sub>2</sub> emissions remain in the atmosphere resulting in a CO<sub>2</sub> increase of one percent every two years. Plants store about the same amount of CO<sub>2</sub> as is stored in the Atmosphere, 90% of which is stored in the forest. Global forestation projects can delay CO<sub>2</sub> increase by maximally 5 years. To store the Swiss emissions the whole forestable space in Switzerland would be forested in 13 years. The CO<sub>2</sub> storage capacity of fast growing plants is smaller than that of old forest. Plant growth rate has nothing to do with Carbon stock in plants. The greenhouse gas problem can thus not be solved in this matter, but an efficient usage of wood is an important step forward. Wood and wood processing is environmentally sound, sustainable and generates labor in Switzerland. Nearly twenty parliamentarians participated at the meeting and the informal discussion, which was chaired by G.-R. Plattner.

### Sustainability: Theory - Application - Indicators

The workshop held in June 1999 at the Ethics Center of the University of Zurich is part of a series of «EU-Concerted Action Workshops» on Environmental Valuation in Europe (EVE). Ten papers were presented by the participants. They formed the basis for in depth discussions and covered ethical and economic, as well as practical aspects. It became clear throughout the workshop that the implementation of indicators to measure sustainability in concrete (often local) contexts builds a major challenge.

The overall aim of the concerted action EVE is

- to build an European network of organisations actively working on environmental valuation both at the theoretical and policy levels;
- to identify gaps in the current understanding;
- to recommend a programme of future interdisciplinary research on environmental valuation relevant to the decision making process.

The official Swiss EVE Partners are A. Leist and K. Rippe from the Ethics Center in Zürich as well as R. Lawrence and B. Bürgenmeier from the University of Geneva (Addresses see <http://www.proclim.unibe.ch> under Persons). Further information can also be obtained from the EVE website at <http://www.landecon.cam.ac.uk/eve/>. The different workshops will be published on the ProClim-Events server as soon as the exact dates become available.

## VARIA

### Internet Adressen für Unterrichtsmaterialien zu 'Klima und Global Change'

Die ETH Zürich bietet mit dem Internet-Server "EducETH" (<http://educeth.ethz.ch>) eine Plattform für Mittelschulen, Berufsschulen, Technikerschulen – kurz für alle Schulen der Sekundarstufe II. Das Ziel ist der Austausch und die Verbreitung von Unterrichtsmaterialien für Lehrpersonen über das Internet. Im Gegensatz zu vielen anderen Bildung-

servern liegt die Stärke von EducETH darin, erprobte Materialien anzubieten, die Lehrern und Lehrerinnen die Unterrichtsvorbereitung erleichtern. Zum Thema Treibhaus Erde für den Physikunterricht z.B. hat es zahlreiche Infoblätter, Grafiken und Aufgaben zu Klimaänderung, Klimageschichte, Treibhauseffekt usw.

Die CLEAR (Climate and Environment in Alpine Regions) Informationsplattform (<http://clear.eawag.ch>) wurde von der Gruppe für Mathematische Modellierung an der EAWAG entwickelt. Sie besteht aus den folgenden 3 Teilen:

- *Impacts*: ein interaktives Informationssystem über die voraussichtlichen Folgen des Klimawandels
- *Optionen* – Wege in die Niedrigenergie-Gesellschaft
- *persönlicher CO<sub>2</sub>-Rechner*: ein interaktives Modell, welches die individuelle CO<sub>2</sub>- und Energiebilanz des Benutzers errechnet.

Die Modelle eignen sich für den Unterrichtseinsatz und sind auch für ein breiteres Publikum von Interesse.

Die deutsche Projektgruppe «Energiesparen und Klima» (<http://www.dkrz.de/schule>) bietet Grundlagenwissen und aktuelle Forschungsergebnisse über den anthropogenen Klimawandel an. Unter der Beteiligung des Deutschen Klimarechenzentrums und versch. Schulen werden zahlreiche Materialien, Arbeitsblätter und didaktische Anleitungen für den Unterricht angeboten.

Die vollständige Liste mit weiteren interessanten Internet Adressen zum Thema 'Klima und Global Change' für den Schulunterricht (ca. 20 Adressen) kann bei ProClim ([proclim@sanw.unibe.ch](mailto:proclim@sanw.unibe.ch)) bestellt werden.

#### Erleichterter Zugang zu Vegetationsdaten

Der Vegetations-Sensor an Bord des SPOT-4-Satelliten gestattet die tägliche Beobachtung der gesamten Erdvegetation in regionalem und globalem Massstab. Forschungsvorschläge für das Programm VEGETATION sollen auf die Analyse mittels Fernbeobachtungen oder auf die Klärung einer thematischen Frage durch intensive (aber nicht ausschliessliche) Verwendung von Vegetations-Produkten ausgerichtet sein.

Das Programm VEGETATION bietet öffentlichen wissenschaftlichen Forschungsprojekten einen (finanziell) bevorzugten Zugang. Diese Zugangsmöglichkeiten gelten für alle Projekte in den Mitgliedstaaten oder in Drittländern, die Anspruch auf Teilname am 5. Forschungsrahmenprogramm haben, also auch in der Schweiz.

Auskunft erteilt: Gilbert Saint, Secrétariat du Comité international des utilisateurs de VEGETATION, CNES Direction des Programmes, 18, avenue E Belin, F-31401 Toulouse Cedex, e-mail: [gilbert.saint@cnes.fr](mailto:gilbert.saint@cnes.fr), Tel: (+33) 5 612 73 654, Fax: (+33) 5 612 74 172, <http://www-vegetation.cst.cnes.fr:8050>

#### Jeune diplômé stagiaire

Le CEPMMT (European Centre for Medium-Range Weather Forecasts) a actuellement deux vacances pour de jeunes diplômés dans son programme de formation lié à la prévision météorologique numérique. Ils sont situés dans les domaines (1) modélisation et assimilation de données pour la prévision météorologique numérique; (2) opérations météorologiques; (3) support pour superordinateurs.

Les candidats doivent normalement venir des services météorologique nationaux, d'universités ou d'institutions de recherche. Comme ses stagiaires recevront une bourse dont le montant est fixé à 1000 livres sterling par mois, un soutien financier continu de leur institution d'origine est essentiel pour la durée de leur engagement (max. de deux ans). Le début de l'engagement sera le 1<sup>er</sup> septembre 1999.

Des formulaires de candidature peuvent être obtenus auprès du Centre: ECMWF, Shinfield Park, Reading, Berkshire RG2 9 AX, England, Tel: (+44 118) 949 9000; Fax: (+44 118) 986 9450. Les formulaires remplis doivent parvenir au Directeur du Centre avant le 5 août 1999.

*As dates and times of the events may change, we recom-*

## CONFERENCES IN SWITZERLAND

*mend to consult the corresponding web sites*

16 August 1999 - 20 August 1999

#### **International Symposium on the Verification of Cryospheric Models: Bringing data and modelling scientists together**

Location: ETH Zürich, Rämistrasse 101, 8006 Zürich, Hauptgebäude F7

Info: International Glaciological Society, Lensfield Road, Cambridge CB2 1ER, UK, Tel: +44-1223-35 59 74,

Fax: +44-1223-33 65 43,

e-mail: [100751.1667@compuserve.com](mailto:100751.1667@compuserve.com),

WWW: <http://www.geo.umnw.ethz.ch/igs-symposium>

24 August 1999 - 28 August 1999

#### **SUN21: 2nd International Week for a Sustainable Energy Future**

Location: Kongresszentrum Messe Basel

Info: SUN21, Postfach 332, 4010 Basel, Tel: 061-271 03 89,

Fax: 061-271 10 83, e-mail: [info21@sun21.ch](mailto:info21@sun21.ch),

WWW: <http://www.sun21.ch>

30 August 1999 - 2 September 1999

#### **International Conference on Lichen Conservation Biology**

Location: Birmensdorf

Info: Ch. Scheidegger, WSL, 8903 Birmensdorf,

Fax: 01-739 22 15, e-mail: [scheidegger@wsl.ch](mailto:scheidegger@wsl.ch)

1 September 1999 - 3 September 1999

**2nd Inter-Regional Conference on Environment-Water: Emerging technology for sustainable land use and water management**

Location: Lausanne, e-mail: [envirowater99@epfl.ch](mailto:envirowater99@epfl.ch),  
WWW: <http://dgrwww.epfl.ch/HYDRAM/envirowater99>

3 September 1999

**Grosse Schutzgebiete in der Schweiz**

Location: Bern, Schweiz  
Info: Fredi Wittwer, ProNatura, Tel. +41-24-425 03 72,  
Fax +41-24-426 93 40, e-mail: [champ-pittet@pronatura.ch](mailto:champ-pittet@pronatura.ch)

6 September 1999 - 10 September 1999

**International Workshop: Structure of Mountain Forests: Assessment, Impacts, Management, Modelling**

Location: Davos  
Info: WSL, 8903 Birmensdorf, Tel: 01-739 22 52,  
Fax: 01-739 22 15, e-mail: [walter.schoenenberger@wsl.ch](mailto:walter.schoenenberger@wsl.ch)

12 September 1999 - 14 September 1999

**Swiss PhD-Students Meeting in the Field of Natural Hazards**

Location: Davos  
Info: Dr. B. Krummenacher, CENAT, c/o SLF, Flüelastr. 11, 7260 Davos, Tel: 081-417 02 01, Fax: 081-417 08 23,  
e-mail: [krummenacher@slf.ch](mailto:krummenacher@slf.ch),  
WWW: <http://www.cenat.ch/cenat.html>

20 September 1999 - 23 September 1999

**ModelCARE'99: International Conference on Calibration and Reliability in Groundwater Modelling – Coping with Uncertainty**

Location: Zürich  
Info: Conference Secretariat ModelCARA'99, ETH, Institute of Hydromechanics and Water Resources Management, Hönggerbert, 8093 Zürich, Tel: 01-633 30 75,  
Fax: 01-633 10 61, e-mail: [stauffer@ihw.baum.ethz.ch](mailto:stauffer@ihw.baum.ethz.ch),  
WWW: <http://www.baum.ethz.ch/ihw/modelcare/program.html>

20 September 1999 - 24 September 1999

**International Workshop on Satellite Remote Sensing and Climate Simulations: Synergies and Limitations**

Location: Les Diablerets  
Info: Prof. M. Beniston, University of Fribourg, Switzerland, e-mail: [martin.beniston@unifr.ch](mailto:martin.beniston@unifr.ch),  
WWW: <http://www.unifr.ch/iguf/>

27 September 1999 - 30 September 1999

**Bridging the gap between dendrochronological analyses and climate reconstruction and prediction**

Wengen 99 Workshop on Global Change Research  
Location: Hotel Regina, Wengen, Switzerland  
Info: Prof. M. Beniston, University of Fribourg, Switzerland; Prof. Fritz H. Schweingruber, Swiss Federal Institu-

te for Forest, Snow and Landscape Research, Birmensdorf, Switzerland.,  
e-mail: [Martin.Beniston@unifr.ch](mailto:Martin.Beniston@unifr.ch),  
WWW: <http://www.unifr.ch/iguf/EVENTS/WENGEN99c1.htm>

6 October 1999 - 8 October 1999

**Les ressources présentes et futures en régions de montagne:**

**Processus naturels, politiques, économiques et sociaux**  
Location: Sion, Suisse  
Info: Institut Universitaire Kurt Bösch, Case postale 4176, CH-1950 Sion, Tel:+41-27-203 73 83,  
Fax: +41-27-203 73 84, e-mail: [institut@ikb.vsnet.ch](mailto:institut@ikb.vsnet.ch),  
WWW: <http://www.ikb.vsnet.ch>

7 October 1999 - 8 October 1999

**COL Symposium 1999 «Looking into the Sediment Subsurface of Lakes»**

Location: Limnogeology Laboratory, ETH-Zürich  
Info: F. Anselmetti, Geological Institute, ETHZ, Sonneggstr. 5, 8092 Zürich, Tel: 01-632 65 69, Fax: 01-632 10 30,  
e-mail: [flavio@erdw.ethz.ch](mailto:flavio@erdw.ethz.ch),  
WWW: <http://www.erdw.ethz.ch/~flavio/COL99>

7 October 1999 - 8 October 1999

**Wasser, Schnee und Eis – natürliche Ressourcen und Gefahren**

Location: Universität Zürich  
Info: Kurt Hanselmann,  
e-mail: [hanselma@botinst.unizh.ch](mailto:hanselma@botinst.unizh.ch)

13 October 1999 - 16 October 1999

**Nachhaltige Nutzung natürlicher Ressourcen**

179. SANW Jahresversammlung  
Location: Hochschule für Wirtschaft Luzern HSW, Zentralstrasse 9, 6003 Luzern / Kunst- und Kongresshaus Luzern  
Info: Sekretariat SANW Jahresversammlung 99 c/o R.I.O. Impuls - Forum für Ökonomie und Ökologie, Schwanenplatz 7, 6004 Luzern, Tel: (41 41) 410 20 03, Fax: (41 41) 410 16 88, e-mail: [rio@tic.ch](mailto:rio@tic.ch),  
WWW: <http://www.sanw.unibe.ch/extern/jv99luzern>

21 October 1999 - 22 October 1999

**Internationales Ozon Symposium**

Location: Basel  
Info: International Ozone Association "Schönbein Jubiläum", c/o Wasserversorgung Zürich, Hardhof 9, Postfach, 8023 Zürich, Tel: 01-435 22 12, Fax: 01-435 25 57, e-mail: [ioa@swissonline.ch](mailto:ioa@swissonline.ch),  
WWW: <http://www.ozone.ethz.ch/>

21 October 1999

**Kyoto Mechanisms Business Opportunities:**

### Financial Aspects

International Seminar

Location: Basel

Info: J. Janssen, IWOe-HSG, Tel: +41-71-224 25 89,

Fax: +41-71-224 27 22, e-mail:Josef.Janssen@unisg.ch,

WWW: <http://www.iwoe.unisg.ch/kyoto>

18 November 1999 - 19 November 1999, 14.00 – 12.30

### Verkehr und Mobilität

Bedrohung oder Herausforderung für die Alpen des 21. Jahrhunderts?

Location: Lugano, Schweiz

Info: Interakademische Kommission Alpenforschung

ICAS, Bärenplatz 2, CH-3011 Bern, Tel: +41-31-318 70 18,

Fax: +41-31-312 16 78, e-mail:dussling@sanw.unibe.ch

29 November 1999 - 4 December 1999

### «Knowledge Management» and «Local Resource Management»

Diskussionsforum Nord-Süd

Location: Solothurn

e-mail:flury@ikaoe.unibe.ch,

WWW:<http://ikaoewww.unibe.ch/nsued.html>

27 February 2000 - 1 March 2000

### Transdisciplinarity: Joint Problem-Solving among Science, Technology and Society

Location: ETH Zürich

Info: Transdisciplinarity Conference Secretariat,

Swiss Priority Programme Environment, Länggassstr. 23, 3012 Bern, Tel: 031-302 55 77, Fax: 031-302 55 20,

e-mail:transdisciplinarity@snf.ch,

WWW: <http://www.snf.ch/transdisciplinarity/home.html>

7 August 1999 - 12 August 1999

### Integrated Regional Assessment of Climate Change:

## IGBP, IHDP, WCRP MEETINGS

### START Central and East European Workshop

Location: Budapest, Hungary

Info: CEE Workshop c/o CIRA, 248 Deike Building, University Park, PA 16802, USA, Fax: +1-814-865 3191,

e-mail:CIRA@essc.psu.edu,

WWW: <http://www.essc.psu.edu/cira/cee/>

20 September 1999 - 23 September 1999

### GCTE Focus 3 Science Conference

Location: Reading, UK

Info: J. Ingram, GCTE Focus 3 Office, Centre for Ecology and Hydrology, McLean Building, Crowmarsh Gifford,

Wallingford OX19 8BB, UK, Fax: +44-1491-692 313,

e-mail:j.ingram@ioh.ac.uk

21 September 1999 - 23 September 1999

### International Conference on Environment Across Cultures

Location: Bad Neuenahr-Ahrweiler, Germany

Info: I. Holtmann, IHDP, Walter-Flex-Str. 3, 53113 Bonn,

Germany, Tel: +49-228-739 061, Fax: +49-228-739 054,

e-mail:holtmann.ihdp@uni-bonn.de

15 November 1999 - 18 November 1999

### 4th LOICZ Open Science Meeting: Regimes of Coastal Change

Location: Bahia Blanca, Argentina

Info: LOICZ International Project Office, Netherlands Institute for Sea Research (NIOZ), P.O. Box 59, 1790 AB

Den Burg, Texel, The Netherlands, Tel: 31-222-36 94 04,

Fax: +31-222-36 94 30, e-mail:loicz@nioz.nl,

WWW: <http://www.nioz.nl/loicz/>

1 December 1999 - 4 December 1999

### 3rd ELOISE Open Science Meeting

Location: Noordwijkerhout, The Netherlands

Info: E. de Bruijn, Congress Secretariat, Yerseke, Netherlands Institute of Ecology, Centre of Estuarine and Coastal Ecology, P.O. Box 140, 4400 AC, The Netherlands,

Tel: +31-113-577 300, Fax: +31-113-573 616,

e-mail:eloise99@cemo.nioo.knaw.nl

13 April 2000 - 18 April 2000

### JGOFS Science Conference

Location: Bergen, Norway

Info: R. B. Hanson, Centre for Studies of Environment and Resources, University of Bergen, High-Technology Centre, 5020 Bergen, Norway, Fax: +44-55-58 96 87,

e-mail:roger.hanson@jgofs.uib.no

19 July 1999 - 30 July 1999

### Symposia on Solar Wind and Interplanetary Field, and Long and Short Term Variability in the Sun's Hi-

## CONFERENCES ABROAD

### story and Global Change (IAGA/IUGG 1999)

Location: Birmingham, UK  
 Info: IUGG99 Secretariat School of Earth Sciences, University of Birmingham, Edgbaston, Birmingham B15 2TT, UK, Tel: +44-121-414 61 65, Fax: +44-121-414 49 42, e-mail: IUGG99@bham.ac.uk, WWW: <http://www.ngdc.noaa.gov/IAGA/symposia>

22 July 1999 - 25 July 1999

### Setting an Agenda for Research on Health and the Environment

Workshop IV – Health Research Data and Methods  
 Location: Turku, Finland  
 Info: M. Loytonen, Chair, IGU Special Committee of Networking and Communication, Department of Geography, 20014 University of Turku, Finland, Tel: +358-2-333 51, Fax: +358-2-333 58 96, e-mail: markku.loytonen@utu.fi, WWW: <http://post.queensu.ca/~jlj/healthandenvir>

9 August 1999 - 13 August 1999

### Impact of Climate Change on the Coastal Zone

Location: Hamburg, Germany  
 Info: J. Sündermann, ZMK, Bundesstr. 55, 20146 Hamburg, Germany, Fax: +49-40-4123 5235, e-mail: suendermann@ifm.uni-hamburg.de

15 August 1999 - 20 August 1999

### The World's Natural Forests and their Role in Global Processes

Location: Khabarovsk, Russia  
 Info: V. Grek, FEFRI, 71 Volochaevskaya Street, 680030 Khabarovsk, Russia, Tel: +7-4212-21 79 52, Fax: +7-4212-21 67 98, e-mail: sergey@niilkh.khabarovsk.su

20 August 1999 - 21 August 1999

### Philosophy and Biodiversity

Location: Turku, Finland  
 Info: M. Oksanen, Department of Philosophy, University of Turku, 20014 Turku, Finland, Tel: +358-2-333 6336, Fax: +358-2-333 6270, e-mail: majuok@utu.fi

26 August 1999 - 27 August 1999

### Nordic Workshop on Scale and Variability Issues in Soil-Plant-Atmosphere Systems

Location: Stockholm, Sweden  
 Info: P.-E. Jansson, Swedish University of Agricultural Sciences, Department of Soil Sciences, Section of Environmental Physics, PO Box 7014, 75007 Stockholm, Sweden, Tel: +46-18-67 11 74, Fax: +46-18-67 27 95, e-mail: per-erik.jansson@mv.slu.se

30 August 1999 - 3 September 1999

### 6th Conference on Environmental Science and Technology

Location: Pythagorion, Samos, Greece  
 Info: A. Liaiti, Tel: +30-1-640 01 94/5/6, Fax: +30-1-646 83 16, e-mail: cest@gnest.org/

5 September 1999 - 10 September 1999

### 5th International Conference on Carbon Dioxide Utilization

Location: Karlsruhe, Germany  
 Info: Gesellschaft Deutscher Chemiker, Abt. Tagungen/ICCDUV, PO Box 900440, 60444 Frankfurt a.M., Germany, Tel: +49-69-7917 358/360/366, Fax: +49-69-7917 475, e-mail: tg@gdch.de, WWW: <http://www.fzk.de/iccd5/>

6 September 1999 - 8 September 1999

### International Conference on Emissions Monitoring

Location: University of Warwick, UK  
 Info: CEM '99 Conference Office, Source Testing Association, 101 Bancroft, Hitchin, Hertfordshire SG5 1NB, UK, Tel: +44-1462-457 535, Fax: +44-1462-457 157, e-mail: CEM99@s~t~a.org

8 September 1999 - 10 September 1999

### Non-CO<sub>2</sub> Greenhouse Gases (NCGG-2): Scientific understanding, control and implementation

Location: Noordwijkerhout, The Netherlands  
 Info: VVM, PO Box 2195, 5202 CD Den Bosch, The Netherlands, Tel: +31-73-621 59 85, Fax: +31-73-621 69 85, e-mail: vvm@worldaccess.nl, WWW: <http://www.milieuonline.nl/vvm>

8 September 1999 - 15 September 1999

### CLIMAR 99: WMO Workshop on Advances in Marine Climatology

Location: Vancouver, Canada  
 e-mail: Val.Swail@ec.gc.ca

8 September 1999 - 16 September 1999

### Global Change & Protected Areas

Location: L'Aquila, Italy  
 Info: G. Visconti, Dipartimento di Fisica, Università degli Studi di L'Aquila, Via Vetoio, Coppito, 67010 L'Aquila, Italy, e-mail: guido.visconti@aquila.infn.it

13 September 1999 - 14 September 1999

### Environmental Policy in Europe: Visions for the New Millennium

The 9th Annual European Environment Conference  
 Location: London, UK  
 Info: E. White, ERP Environment, P.O. Box 75, Shipley, West Yorkshire BD17 6EZ, UK, e-mail: elainewhite@erpenvironment.org

13 September 1999 - 14 September 1999

### International Conference on Atmosphere Protection

Location: Taipei, Taiwan

Info: G. Shin-Ru Tang, Tel: +886-3-572 2224,  
Fax: +886-3-573 2663, e-mail:810635@ucl.itri.org.tw

13 September 1999 - 17 September 1999

**4th International Conference on Modelling of Global Climate Change and Variability**

Location: Max-Planck-Institut für Meteorologie, Hamburg, Germany

Info: L. Dümenil, Conference Coordinator, Max-Planck-Institut für Meteorologie, Bundesstr. 55, 20146 Hamburg, Germany, Tel: +49-40-411 73 310, Fax: +49-40-411 73 366, e-mail:mpi-conference@dkrz.de, WWW: <http://www.mpimet.mpg.de/~mpi-conference>

13 September 1999 - 17 September 1999

**EC/IGAC Conference on Atmospheric Chemistry**

Location: Bologna, Italy

Info: S. Fuzzi, Istituto FISBAT, Bologna, Tel: +39-51-639 96 29, Fax: +39-51-639 96 58, e-mail:fuzzi@atmosphere.fisbat.bo.cnr.it, WWW: <http://www.fisbat.bo.cnr.it/IGAC99/>

17 September 1999 - 18 September 1999

**Health and the Value of Life**

Workshop «Concerted Action on Environmental Valuation in Europe (EVE)»

Location: Strasbourg, France

Info: C. Carter, Cambridge Research for the Environment (CRE), Dept. of Land Economy, Univ. of Cambridge, 19 Silver Street, Cambridge CB3 9EP, UK, Tel: +44-1223-330802, Fax: +44-1223-337130, e-mail: cec29@cam.ac.uk, WWW: <http://www.landecon.cam.ac.uk/eve/>

Registration: on invitation only

17 September 1999 - 22 September 1999

**Polar Regions and Quaternary Climate: Towards High Resolution Records of the Last Climatic Cycle – The Antarctic Perspective**

Location: Giens, France

Info: J.Hendekovic, ESF, Office of European Research Conferences (EURESCO), 1 quai Lezay-Marnésia, 67080 Strasbourg Cedex, France, Fax: +33-3-88 36 69 87, e-mail:euresco@esf.org, WWW: <http://www.esf.c-strasbourg.fr/euresco/LC99115A.HTM>

20 September 1999 - 24 September 1999

**4th International Congress on Energy, Environment and Technological Innovation**

Location: Rome, Italy

Info: EETI99, Università degli Studi de Roma «La Sapienza», Facoltà di Ingegneria, Via Eudossiana 18, 00184 Rome, Italy, Tel: +39-6-4458 5764, Fax: +39-6-4883 235, e-mail:eeti99@minerva.ing.uniroma1.it, WWW: <http://www.ing.ucv.ve/ceait/eeti.htm>

20 September 1999 - 23 September 1999

**Food & Forestry: Global Change and Global Challenges**

Location: University of Reading, UK

Info: S. Wilkinson, Food & Forestry: Global Change and Global Challenges Conference Secretariat, Elsevier Science, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK, Tel: +44-1865-843 691, Fax: +44-1865-843 958, e-mail:sm.wilkinson@elsevier.co.uk, WWW: <http://www.elsevier.nl/locate/gcte99>

22 September 1999 - 25 September 1999

**Umwelt 2000**

Location: Halle, Germany

Info: Universitätszentrum für Umweltwissenschaften, Martin-Luther-Universität Halle, Moritzburgweg 10, 06108 Halle, Deutschland,

24 September 1999 - 26 September 1999

**Setting an Agenda for Research on Health and the Environment**

Workshop I – Health and Climate Variability

Location: Maastricht, The Netherlands

Info: P. Martens, Maastricht University, Dept. of Mathematics, P.O. Box 616, 6200 MD Maastricht, The Netherlands, Tel:+31-43-388 3555, Fax: +31-43-321 1889, e-mail:p.martens@math.unimaas.nl, WWW: <http://post.queensu.ca/~jlj/healthandenvir>

30 September 1999 - 2 October 1999

**Nature, Society and History. Long Term Dynamics of Social Metabolism**

Location: Vienna, Austria

Info: IFF, Department of Social Ecology, 1999 Conference, Seidengasse 13, 1070 Vienna, Austria, Fax: +43-1-523 58 43, e-mail:barbara.smetschka@univie.ac.at, WWW: <http://www.univie.ac.at/iffsocec>

4 October 1999 - 7 October 1999

**EGS Vening Meinesz Conference on Global and Regional Sea-Level Changes and the Hydrological Cycle**

Location: Sardinia, Italy

Info: EGS Office, Max-Planck-Str. 13, 37191 Katlenburg-Lindau, Germany, Tel: +49-5556-1440, +49-5556-4709, e-mail:egs@copernicus.org, WWW: <http://www.copernicus.org/EGS/conference/vmcl/cover.htm>

11 October 1999 - 12 October 1999

**Symposium Naturkatastrophen in Mittelgebirgsregionen**

Location: Karlsruhe, Deutschland



Info: Organisationskomitee des Symposiums «Naturkatastrophen», c/o M. Kohler, Institut für Meteorologie und Klimaforschung, Universität Karlsruhe (TH), Kaiserstr. 12, 76128 Karlsruhe, Deutschland,  
Tel: +49-721-608 2761, Fax: +49-721-608 6102,  
e-mail: martin.kohler@imk.fzk.de,  
WWW: <http://imkhp3.fzk.de/sympos/sym.html>

12 October 1999 - 15 October 1999

**Interactions Between the Ocean and the Atmosphere: Droughts and Desertification**

Location: LaSerena, Chile

Info: O. Oramas, Oficial de Programa para América Latina y el Caribe, Convención Desertificación y Sequía, Haus Carstanjen, Martin-Luther-King-Str. 8, 53175 Bonn, Germany, Tel: +49-228-815 2800, Fax: +49-228-815 2899, e-mail: secretariat@unccd.uno.de

13 October 1999 - 15 October 1999

**Biogenic Emissions of Greenhouse Gases Caused by Arable & Animal Agriculture**

Location: Stuttgart, Germany

Info: Ms Freibauer, Institute of Energy Economics & the Rational Use of Energy, Univ. of Stuttgart, Hessbrühlstr. 49a, 70565 Stuttgart, Germany, Tel: +49-711-780 6140, e-mail: af@ier.uni-stuttgart.de

14 October 1999 - 16 October 1999

**Benefit Transfer**

Workshop «Concerted Action on Environmental Valuation in Europe (EVE)»

Location: Lillehammer, Norway

Info: C. Carter, Cambridge Research for the Environment (CRE), Dept. of Land Economy, Univ. of Cambridge, 19 Silver Street, Cambridge CB3 9EP, UK,  
Tel: +44-1223-330802, Fax: +44-1223-337130,  
e-mail: cec29@cam.ac.uk,  
WWW: <http://www.landecon.cam.ac.uk/eve/>  
Registration: on invitation only

3 November 1999 - 5 November 1999

**International Conference on Sustainable Management of Coastal Ecosystems**

Location: Oporto, Portugal

Tel: +351-2-550 82 70, Fax: +351-2-550 82 69,  
e-mail: pduarte@ufp.pt, WWW: <http://www.ufp.pt/units/geonucleo/coastal-ecosystems/>

8 November 1999 - 12 November 1999

**15th International Congress of Biometeorology and the International Conference on Urban Climatology**  
Biometeorology and Urban Climatology at the Turn of the

Millennium

Location: Sydney, Australia

Info: R. de Dear Chair, ICB-ICUC'99 Organising Committees ICB-ICUC'99 Secretariat GPO Box 128, Sydney NSW 2001, Australia, Tel: +61-2-9262 2277, Fax: +61-2-9262 3135, e-mail: icbicuc@tourhosts.com.au

15 November 1999 - 19 November 1999

**International Symposium on Multifaceted Aspects of Tree Ring Analysis**

Location: Lucknow, India

Info: A. Bhattacharyya, Birbal Sahni Institute of Palaeobotany, 53 University Road, Lucknow 226 007, India, Tel: 91-0522-333 620, Fax: 91-0522-381 948, e-mail: bsip@bsip.sirnetd.ernet.in

26 March 2000 - 31 March 2000

**EUROTRAC Symposium '00**

Location: Garmisch-Partenkirchen, Germany

Info: P. Borell, EUROTRAC-2 ISS, GSF-Forschungszentrum für Umwelt und Gesundheit GmbH, Kühbachstr. 11, 81543 München, Germany, e-mail: eurotrac@gsf.de

3 April 2000 - 7 April 2000

**Remote Sensing 2000 Symposium**

Location: Santa Fe, USA

Info: A. Rango, Fax: +1-301-504 8931, e-mail: alrango@hydrolab.arsusda.gov

22 May 2000 - 26 May 2000

**International Symposium on Snow, Avalanches and Impact of the Forest Cover**

Location: Innsbruck, Austria

Info: Secretary General, International Gloaciological Society, Lensfield Road, Cambridge CB2 1ER, UK, Tel: +44-1223-35 59 74, Fax: +44-1223-33 65 43, e-mail: int\_gloc\_soc@compuserve.com, WWW: <http://www.spri.cam.ac.uk/igs/home.htm>

5 June 2000 - 9 June 2000

**R'2000: Recovery, Recycling, Re-integration: 5th World Congress and Trade Show**

Location: Toronto, Canada

Info: A. Barrage, c/o PEAK Ltd., Director of the Congress, Seefeldstrasse 224, 8008 Zürich, Tel: 1-386 44 44, Fax: 1-386 44 45, e-mail: barrage@peak.ch, WWW: <http://www.RRR2000.com>

5 June 2000 - 12 June 2000

**World Mountain Forum**

The first ever meeting of the world's mountain areas

Location: Paris, Chambéry, France

Info: Ville de Chambéry, Forum Mondial, Hôtel de Ville,  
BP 1105, F-73011 Chambéry, Fax +33-479 60 20 74,  
e-mail:forum@mairie-chambery.fr

26 June 2000 - 30 June 2000

**Interpraevent 2000**

Location: Villach, Österreich  
Info: Interpraevent 2000, Postfach 117, 9020 Klagenfurt,  
Österreich, Tel: +43-463-536 318 18,  
Fax: +43-463-536 318 28, e-mail:interpraevent@ktn.gv.at

17 July 2000 - 19 July 2000

**International Symposium on Extraordinary Floods**

Location: Reykjavik, Iceland  
Info: H.P. Finnsdottir, Extremes2000 Conference Secretariat,  
Hydrological Service, National Energy Authority,  
Grensasvegi 9, IS-108 Reykjavik, Iceland,  
e-mail:extremes2000@os.is

24 July 2000 - 29 July 2000

**International Radiation Symposium (IRS-2000)**

Location: St. Petersburg, Russia  
Info: E.M. Shulgina St. Petersburg State University, Research  
Institute of Physics, 1 Ulyanovskaya, 198904,  
St. Petersburg, Russia, Fax: +7 -812-428 72 40,  
e-mail:evgenia.shulgina@pobox.spbu.ru

13 August 2000 - 16 August 2000

**5th International Conference on Greenhouse Gas Control Technologies**

Location: Cairns Convention Centre, Australia  
Info: C. Paulson, PO Box 136, North Ryde, 2113, NSW  
Australia, Tel: +61-2-9490 8790, Fax: +61-2-9490 88 19,  
e-mail:colin.paulson@det.csiro.au,  
WWW: <http://www.ieagreeen.org.uk/ghgt5.htm>

17 August 2000 - 22 August 2000

**World Congress on Managing and Measuring Sustainable Development**

Location: Kananaskis Village, Canada  
Info: Organizing Committee, The Society for World Society  
Sustainable Development, #308, 920-9 Avenue  
S.W., Calgary, Alberta, Canada T2P 2T9,  
Tel: +1-403-265 3404,

e-mail:gdufour@globalcommunitywebnet.com

20 August 2000 - 28 August 2000

**Hydrological Consequences of Global Climate Changes**

4th International Meeting on Global Continental Palaeohydrology  
Location: Moscow and Central Part of Russian Plain  
Info: A. Chepalyga, Laboratory of Hydrology, Institute of  
Geography, Russian Academy of Sciences, GLOCOPH  
2000, Staromonetny per., 29, 109017 Moscow, Russia,  
Fax: +7-95-959 00 33, e-mail:geography@glasnet.ru

4 September 2000 - 8 September 2000

**High mountain lakes and streams**

Indicators of a changing world  
Location: Innsbruck, Austria  
Info: University of Innsbruck, Institute of Zoology and  
Limnology, Technikerstrasse 25, A-6020 Innsbruck,  
e-mail:hmls2000@uibk.ac.at,  
WWW: <http://zoology.uibk.ac.at/congress>

11 September 2000 - 15 September 2000

**AlpenForum 2000:**

**Lebensraum Alpen – Chancen und Risiken**

Modul 1: Verkehr und Kommunikation/Modul 2: Gesundheit und Lebensqualität/Modul 3: Kultureller Austausch und Innovation/Modul 4: Forschung in den Berggebieten Europas  
Location: Bergamo, Italien  
Info: Internationales Wissenschaftliches Komitee AlpenForum, Geschäftsstelle, Bärenplatz 2, CH-3011 Bern, Tel: +41-31-318 70 18, Fax: +41-31-312 16 78,  
e-mail:dussling@sanw.unibe.ch

2 October 2000 - 6 October 2000

**International Aerosol Symposium IAS-5**

Location: Budapest, Hungary  
WWW: <http://www.ias.inext.hu>

2 August 1999 - 20 August 1999

**Sommerakademie "Brennpunkt Alpen"**

Basismodul  
Location: Schaan, Fürstentum Liechtenstein

## CONTINUING EDUCATION

Info: CIPRA International, Im Bletscha 22, 9494 Schaan, Fürstentum Liechtenstein, Tel: +41-75-237 40 30, Fax: +41-75-237 40 31, e-mail:cipra@cipra.org, WWW: <http://www.cipra.org>

21 August 1999 - 26 August 1999

### **Summer School on Consumption, Everyday Life and Sustainability**

Location: Lancaster, UK

Info: L. Waite, Centre for Science Studies, University of Lancaster, Bowland Tower South, Lancaster LA1 4YT, UK, e-mail:L.Waite@lancaster.ac.uk, WWW: <http://www.lancs.ac.uk/users/scistud/esf/title.htm>

23. August 1999 und 30. - 31. August 1999

### **Biodiversität und Recht: Der Beitrag des Rechts zur Erhaltung und Förderung der Artenvielfalt**

Weiterbildung in Ökologie

Leitung: S. Biber-Klemm

Location: Universität Bern

Info: Weiterbildung in Ökologie, Universität Fribourg, Ch. du Musée 8, 1700 Fribourg, Tel: 026-300 73 42, Fax: 026-300 97 28, e-mail:gerhard.schneider@unifr.ch, WWW: <http://www.unifr.ch/environ/>

23 August 1999 - 27 August 1999

### **Gebirgsökologie – biologische, geochemische und physikalische Aspekte**

Kurs mit Exkursionen über Struktur, Funktion und Diversität von Gebirgsökosystemen

Location: Davos, Schweiz

Info: Ch. Berni, School for Alpine Studies, c/o Eidg. Institut für Schnee- und Lawinenforschung, Flüelastr. 11, 7260 Davos Dorf, Schweiz, Tel: +41-81-417 02 25, Fax: +41-81-417 08 23, e-mail:berni@slf.ch

24 August 1999 - 26 August 1999

### **«Natürliche» Tracer in der Umwelt: Grundlagen und Nutzungsmöglichkeiten**

Leitung: W. Aeschbach, J. Beer, R. Kipfer

Location: EAWAG, Überlandstr. 133, 8600 Dübendorf  
Info: H. Güttinger, EAWAG, Überlandstr. 133, 8600 Dübendorf, Tel: 01-823 50 23, e-mail:herbert.guettinger@eawag.ch

27 August 1999

### **Nachhaltige Entwicklung – Umsetzung auf lokaler Ebene: Regenerationspark Seeland**

Weiterbildung in Ökologie

Leitung: A. Kläy, K. Rohner, R. von Felten

Location: Universität Bern

Info: Weiterbildung in Ökologie, Universität Fribourg, Ch. du Musée 8, 1700 Fribourg, Tel: 026-300 73 42, Fax: 026-300 97 28, e-mail:gerhard.schneider@unifr.ch,

WWW: <http://www.unifr.ch/environ/>

27. August 1999 und 10. September 1999

### **Umweltverantwortliches Handeln von Individuen – Hemmnisse und Veränderungsmöglichkeiten**

Weiterbildung in Ökologie

Leitung: R. Kaufmann-Hayoz

Location: Universität Bern

Info: Weiterbildung in Ökologie, Universität Fribourg, Ch. du Musée 8, 1700 Fribourg, Tel: 026-300 73 42, Fax: 026-300 97 28, e-mail:gerhard.schneider@unifr.ch, WWW: <http://www.unifr.ch/environ/>

30 August 1999 - 17 September 1999

### **International Summer Course for EC-nationals: Puzzle Solving for Policy: Tools and Methods for Integrated Assessment**

Location: Maastricht, The Netherlands

Info: C. Janssens, Course coordinator, The Amsterdam-Maastricht Summer University, P.O. Box 53066, 1007 RB Amsterdam, The Netherlands, Tel: +31-20-620 02 25, Fax: +31-20-624 93 68, e-mail:Caroline.Janssens@amsu.edu

8 September 1999 - 17 September 1999

### **Climate Change and Human Health**

Location: London, UK

Info: Prof. A.J. McMichael, Dept. of Epidemiology & Population Health, London School of Hygiene & Tropical Medicine, Keppel St., London, WC1E 7HT, UK, Tel: +44-171-927 2078, Fax: +44-171-580 6897, e-mail:t.mcmichael@lshtm.ac.uk

1 October 1999

### **Diplôme ECOFOC: études interdisciplinaires de 3 ans**

#### **Thème de l'année 1999-2000: l'environnement rural**

Formation postgrade en écologie et sciences de l'environnement

Leitung: J.-D. Gallandat

Location: Université de Neuchâtel

Info: Weiterbildung in Ökologie, Universität Fribourg, Ch. du Musée 8, 1700 Fribourg, Tel: 026-300 73 42, Fax: 026-300 97 28, e-mail:gerhard.schneider@unifr.ch, WWW: <http://www.unifr.ch/environ/>

3 November 1999

### **Nachhaltige Entwicklung – Umsetzung auf lokaler Ebene: Ittigen – Ökologie am Stadtrand**

Weiterbildung in Ökologie

Leitung: M. Flury, S. Ulli-Beer

Location: Universität Bern

Info: Weiterbildung in Ökologie, Universität Fribourg, Ch. du Musée 8, 1700 Fribourg, Tel: 026-300 73 42, Fax: 026-300 97 28, e-mail:gerhard.schneider@unifr.ch, WWW: <http://www.unifr.ch/environ/>

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All events are updated weekly at the ProClim- WWW site <http://www.proclim.unibe.ch/Events.html>