

WASWAC HOT NEWS 2012 (03) April-June 2012

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Please send your contributions/ information for next issue(s) of HOT NEWS & WASWAC Bulletin to waswacsecretariat@gmail.com, care_045@yahoo.com, tongyl@iwhr.com, pure_soil03@hotmail.com, namhort55@gmail.com & sskukal@rediffmail.com (for Bulletin). This document is NOT properly edited, to enable a quick release to meet many deadlines. Previous issues are available on <http://waswac.soil.gd.cn>.

All issues will be available on WASWAC official website <http://www.waswac.org> by the end of 2012.

REDUCE



REUSE



RECYCLE

These are what every one of us can do to mitigate global climate change – our imminent threat.



PLEASE CONSIDER THE ENVIRONMENT BEFORE YOU PRINT THIS HOT NEWS



Meet us in

facebook

You Tube

Join us

<http://www.facebook.com/pages/World-Association-of-Soil-and-Water-Conservation/187062347982860>

and also please search in **Youtube** for 'SWATlectures'.

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WASWAC permanent official website was established

It has passed 11 years since late 2001, Dr Michael Zoebisch helped establish the first website of WASWAC at the AIT in Bangkok. During the development of the last decade, this website was gradually transposition to Tokyo and Guangzhou with the support of Institute of Environment Rehabilitation and Conservation (ERECON) and Guangdong Institute of Eco-Environmental and Soil Sciences (GIEESS). Now, the WASWAC Secretariat has formally designed a new one (www.waswac.org) as our permanent official website, which includes a series of sections, such as WASWAC events, Conferences, Special Reports, Publications, Awards, Advertisements, and so on. The website operator will post regular updates on matters relating to soil and water conservation to make it more timely and informative. To improve this webpage, any contributions, suggestions and comments are welcomed, so please do not hesitate to let the secretariat know your feedbacks.

One thing need to be pointed out: please all members to contact our secretariat (waswacsecretariat@gmail.com or pfd@ sina.com) to get your username and password for downloading all issues Hot News, Bulletin, and other publications of our association.

September 5, 2012 **SEARCH** **GO** **WASWAC MEMBERSHIP APPLICATION** → **中文**

Home
About WASWAC
WASWAC Events
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Latest News **MORE**

- WASWAC Brochure (the first edition) is released
- The WASWAC Secretariat Delegation Visits Thailand
- President Li Rui visits Europe
- The council meeting was held at Beijing, 26-27 March, 2012
- The training at the SWAT School of Central Luzon has been
- SWAT Guangzhou training workshop was held in July 24-30, 2011
- Earthquake, Tsunami and Nuclear Crisis in Japan

Announcements **MORE**

- The 35th IAHR World Congress
- The 2nd WASWAC World Conference
- 1st Workshop on Geomorphology in SE Asia and China
- The 67th Annual SWCS International Conference
- 3rd International Conference on Soil Bio- and Eco-engineering
- 2012 International Debris-Flow Workshop
- International Conference on Managing Protected Areas under

WASWAC Council Meeting

WASWAC World Conferences

Advertisements

SonTek
YSI incorporated

Download (for WASWAC Members)

HOT NEWS **BULLETIN** **OTHERS**

Welcome to our new website

COOPERATING INSTITUTIONS



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Tel: +86 10 68786413 Fax: +86 10 68411174 Email: waswacsecretariat@gmail.com

WASWAC Brochure (the first edition) is released

We are happy to announce that the first edition WASWAC Brochure is released! WASWAC information, such as brief introduction, background, development, awards, publications and conferences have been included. In addition, the members application form is also attached in this brochure for convenience. This brochure download for free at our official website: <http://www.waswac.org/newsShow.asp?fileSort=19&id=260>



WASWAC

**WORLD ASSOCIATION OF
SOIL AND WATER CONSERVATION
(WASWAC)**

WASWAC Secretariat, IRTCES, 20 Chegongzhuang Road
West, P.O.Box 366, Beijing 100048, China
www.waswac.org

The World Association of Soil and Water Conservation (WASWAC), as a worldwide academic society, was established in USA in August 1983. The WASWAC secretariat, initially located at the Soil and Water Conservation Society (SWCS), Iowa, USA, was moved on 1 April 2003 to the International Center for Research and Training on Seabuckthorn (ICRTS), Beijing, China, and from October 2010 to the International Research and Training Center on Erosion and Sedimentation (IRTCS), also in Beijing.

Since its founding, the WASWAC has devoted itself to research and communication to solve scientific and technical problems related to soil and water conservation. Many cooperative research projects have been conducted, a series of international training courses, symposia and workshops have been organized, and several awards in the field of soil and conservation have been set up and sponsored by WASWAC.

WASWAC welcomes future cooperation and collaboration with sister organizations, including governmental and non-governmental agencies, universities, research institutes, and consultants in soil and conservation-related fields across the world. The aim is to promote the wise use of management practices that will improve and safeguard the quality of land and water resources so that they continue to meet the needs of agriculture, society and nature.



Various erosion forms and complicated types



Soil and water conservation treatments

DEVELOPMENT

Twenty-nine years on, WASWAC now has over 1,000 members from 60 countries, classified in 5 categories: Individual members (IM), Life members (LM), Organization members (OM), Student and Gift members (SM & GM) and Guest members (GM).

WASWAC Presidents

Time	President	Country
August 1983	Bill Moldenhauer	USA
1983-1986	Norman Hudson	UK
1987-1991	Rattan Lal	USA
1992-1997	Hans Hurni	Switzerland
1997-2001	David Sanders	UK
2002-2006	Samran Sombatpanit	Thailand
Jan-Mar 2005	Martin Haigh	UK
2006-2010	Miodrag Zlatić	Serbia
2011-2013	Li Rui	China

AWARDS

WASWAC is in charge of the Norman Hudson Memorial Award, Distinguished Research Award, and Distinguished Extension Award to outstanding soil erosion and conservation researchers and engineers.

PUBLICATIONS

WASWAC has published a series of books and issues the monthly Hot News and quarterly BULLETIN, reporting the latest news about relevant issues such as research funding, scholarships and fellowships, opportunities for training and study tour, new books, proceedings, magazines, brochures, newsletters, call for papers, conferences and worldwide job opportunities.



A series of WASWAC publications

CONFERENCES

WASWAC organizes a world conference (WC) every 3 years, to coincide with its official Council meeting and other technical meetings. The next one (2nd WASWAC WC) will take place in Bangkok, Thailand from May 13 to 18, 2013.



Conference pictures of WASWAC

MEMBERS APPLICATION

Name:
 Gender: ☐ F ☐ M
 Institution:
 Postal address:
 State/Province:
 Zip/Postal code: Country:
 Phone: Fax:
 Emails:
 Specialized field(s):

Membership category: ☐ IM ☐ LM ☐ OM ☐ SM&GM ☐ GM

IM- Individual members, US\$20 for 5 years for developing countries, US\$40 for 5 years for developed countries and persons working in international organizations worldwide.

LM- Life members, US\$80 for developing countries, US\$160 for developed countries and persons working in international organizations worldwide.

OM- Organization members, US\$100/year for an organization with up to 150 persons, US\$150/year for an organization with up to 300 persons; US\$200/year for an organization with up to 500 persons; and US\$10/year for an additional 100 persons or part thereof.

SM & GM- Student & Gift members, US\$5/year worldwide, to be purchased to give to colleagues, friends, students, etc.

GM- Guest members, FREE for up to 1 year (By invitation).

JOIN US! Please fill this form and return to us OR join online via our official website www.waswac.org

The Secretariat of WASWAC

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Email: waswacsecretariat@gmail.com

Website: www.waswac.org

MEETINGS 2012+



"Erosion and sediment yields in the changing environment" symposium continues the highly successful ongoing series of ICCE symposia. Recent symposia were held in Moscow (2004), Dundee (2006), Christchurch (2008) and Warsaw(2010). In Oct. 11-15, 2012, the symposium will be held in Chengdu by the Institute of Mountain Hazards and Environment, CAS.

The Chengdu ICCE'2012 Symposium will focus on both erosion and sediment yields in the changing environment, considering: Dynamics processes of erosion and sediment transport in fluvial systems, Impacts of climate change and human activities on erosion and sediment yield, Erosion and sediment yields modeling, Mountain hazards and debris flows, Monitoring and tracing methodology.

More information at <http://icce2012.csp.escience.cn/dct/page/65540>

Soil solutions for diverse landscapes



Time: 2-7 December 2012

Venue: Hobart, Australia

Conference Themes: 1. Soil philosophy, soil education and the future of soil; 2. Soil carbon and climate change; 3. Pedology, soil stratigraphy and Quaternary landscape history; 4. New techniques in soil spatial analysis; 5. Soils and infrastructure developments; 6. Soil fertility and soil contaminants; 7. The living soil; 8. Soil and land degradation; 9. The physical soil; 10. Forensic soil science.

More Details at: <http://www.soilscience2012.com/>

SUSTAINABLE IRRIGATION 2012



Conference Topics

Irrigation management
Irrigation modelling
Irrigation systems and planning
Economic incentives and instruments
Groundwater resources and contamination
Water Re-use

Climate change effects
Water trade
Economics of irrigation
Governance for sustainable irrigation
International issues
Drainage
Water quality and remediation

Time and Venue: 11-13 December 2012; Adelaide, Australia.

Paper Online submission: www.wessex.ac.uk/irrigation2012

MEETINGS 2013++

International Symposium on Mechanical Properties of Frozen Soils

Date: Thursday January 31 2013

Location: Hyatt Regency Jacksonville Riverfront Jacksonville, FL, USA

Objective: The symposium will provide a forum for exchange of ideas on current research on the testing of mechanical properties of frozen ground. A key objective is to identify new opportunities for standards and specifications that will facilitate construction on frozen soils as well as utilization of natural resources in frozen soil conditions. Articles on triaxial testing, dynamic testing and tensile strength testing of frozen soil and tailings are of interest. Papers on other frozen soil testing methods are also welcome. Providing a rationale for the various details within a new standard for triaxial testing of frozen soils is of particular interest.

Topics:

- Equipment requirements
- Specimen considerations;
- Testing procedure;
- Data analysis;
- Application of test data;
- Typical test results for certain frozen soils and tailings.

More details: http://www.astm.org/SYMPOSIA/filtrexx40.cgi?+-P+EVENT_ID+2095+/usr6/htdocs/astm.org/SYMPOSIA/callforpapers.frm

International Multidisciplinary Conference on Hydrology and Ecology: Emerging Patterns, Breakthroughs and Challenges

HydroEco'2013

4th International Multidisciplinary Conference on
Hydrology and Ecology :
Emerging Patterns, Breakthroughs and Challenges

Dates: 13 May 2013 → 16 May 2013

Location: Rennes, France

Brief Introduction: A considerable number of interdisciplinary researches have been developed at the interface between hydrology and ecology during the last decade. The increasing number of peer-reviewed papers on the topic demonstrates the vitality of this theme. This interest in coupling hydrological and ecological studies has been triggered by purely scientific questions related to the quantification of the role of interactions between hydrological and biological processes on surface and groundwater resources and quality, but also by the importance of these physical and biological interactions at small, local and regional scales. These scales are of paramount importance for applied environmental issues related to air and water quality or biodiversity dynamics for instance. The aims of this conference are: i) to present new findings and approaches on interactions between hydrology and ecology, ii) to promote interdisciplinary interactions on water related issues between hydrology, hydrogeology, biogeochemistry, microbial ecology and ecology, iii) to explore emerging patterns, breakthroughs and challenges, and iv) to provide management applications and guidelines to tackle environmental issues.

Topics:

S1: Interactions between surface water, hyporheic zone, saturated and unsaturated groundwater

S2: Plant-, surface- and or groundwater interactions

S3: Hydroecology in the wetland context

S4: River temperature: understanding physical processes and ecological impacts

S5: Pollutant buffering capacities from riparian zones to landscape

S6: Impact and role of extreme hydro-meteorological events on interactions between hydrological and biological processes

S7: Modelling interactions between hydrological and biological processes

S8: Scaling spatio temporal laws in Water, Life, and Landscapes

S9: Relevance and limitation of existing legal and regulatory legislation to maintain and enhance hydrological and biological interactions

S10: Restoration of hydrosystems services

S11: Hydroecological tools for assessment of aquatic ecosystems functions

Weblink: <http://osur.univ-rennes1.fr/HydroEco2013/>

7th International Conference on River Basin Management



CONFERENCE TOPICS

Water resources management
Flood risk management
Ecological and environmental impact
Erosion and sediment transport
Hydrological modelling
Sustainable rivers
Rivers and tourism
River restoration and rehabilitation
Hydropower impacts and solutions
River and watershed management
Integrated management
Water quality issues
Eutrophication and agricultural pollution
Trans-boundary river issues
Estuaries, deltas and lagoons
Changing climate and adaptive water management
Droughts and desertification
Wetlands
Water and health
Socio-economic and political issues
Water governance and water justice

MORE INFORMATION: wessex.ac.uk/rivers2013

The 2nd WASWAC World Conference



Dates: May 13-18 2013

Venue: Bangkok, Thailand

Themes: - Situation and evolution of land degradation

- Control measures to prevent and mitigate land degradation and to restore degraded land
- Evaluation of impact of land degradation on food production and the environment
- Effects of global climate change on land degradation and food security
- Law and policy to prevent and mitigate land degradation
- Water resource management

Details: http://www.ddd.go.th/web_waswac2/ & <http://www.waswac.org/newsShow.asp?fileSort=20&id=259>



IUSS Global Soil Carbon Workshop

The IUSS Global Soil Carbon Conference is the first IUSS interdivisional and intercommissional conference that focuses on soil C in space and time, soil C properties and processes, soil C in relation to soil use and management, and the role of soil C in sustaining society and the environment. The global conference will be held at **University of Wisconsin-Madison, USA, 3-6 June 2013.**

Registration fees: is US\$350 and that includes welcome reception, programme book, coffees and lunches. Students registration is half price. Fieldtrip (\$75) and conference dinner (\$75) are optional. Refurbished single student dorms (\$60 per night including breakfast) are available at a walking distance from the conference room (seen map below). Conference hotel is Concourse hotel <http://concoursehotel.com/>

Details: http://www.iuss.org/index.php?option=com_content&view=article&id=407&Itemid=31



Time: 10-13 June 2013

Venue: The Hague, the Netherlands

Brief Introduction: This LuWQ2013 conference aims to discuss the entire policy cycle for water quality improvement. This cycle includes problem recognition, formulation of technical options, the process of policy development, interaction with policy makers, stakeholders and pressure groups, policy implementation, monitoring and research. This conference also aims to intensify contacts, on the one hand, between scientists with a background in natural sciences and scientists with a background in social and economic sciences and, on the other hand, between scientists, water managers and policy makers.

Themes: **A..** Increasing system knowledge; **B..** Impact of climate change and weather variability; **C..** Assessment of national policy; **D..** Field research and data interpretation; **E..** Managing protected areas; **F..** Decision-making and implementation.

Abstract Submission: is now open, and will be closed on 20 October, 2012. Late abstract submission in principle only for posters. Maximum length of abstract is 3000 characters, this is about 400 words or approximately half of an A4 page, in English.

More information please go to: <http://www.luwig2013.nl/>

XVII Conference of the International Soil Conservation Organization (ISCO)



The XVII ISCO Conference will be held in **Medellin (Colombia), 08 - 12 July 2013**, and the following central and specific topics have been selected:

Central topic: Environmental Sustainability through Soil Conservation

Specific topics: 1) Land planning, soil and water conservation;

2) Physical, chemical and biological processes in soil conservation and degradation;

3) Hydrological processes in soil degradation and associated natural disasters;

4) Environmental dynamics associated with land use changes;

5) Carbon sequestration and climatic change;

6) Environmental impact of the mining industry on soils and waters;

7) Degradation of soils and biofuel production.

Registration fee: 400 USD (includes CD with abstracts, local field tour, 4 lunches and closing banquet)

Deadlines: Reception of short abstract: 31 December 2012; Reception of extended abstract: 31 March 2013

More Details Please See the First Announcement Online:

<http://www.essc.sk/WebBoard/documents/First%20announcement%20ISCOPDF.pdf>

7th International Conference of the Urban Soils Working Group



DEADLINES AGENDA:

September 2012: Registration and Abstract Submission starts

15th February 2013: Abstract submission deadline

30th April 2013: Early Registration Fee Payment deadline

15th May 2013: Post-Conference Tour Registration and Payment deadline

15th June 2013: Regular Registration Fee Payment deadline

15th June 2013: Accommodation reservation deadline

CONFERENCE TOPICS:

Classification of SUITMAs

Soil diversity in urban areas (properties, soil types, mapping)

Degradation of SUITMAs and human health

SUITMAs and climate change

Biodiversity in SUITMAs

SUITMAs and culture

Details at: <http://www.suitma7.umk.pl/>



Theme: 1. Materials and modelling

2. Protection of the environment and sustainable development

3. Natural hazards

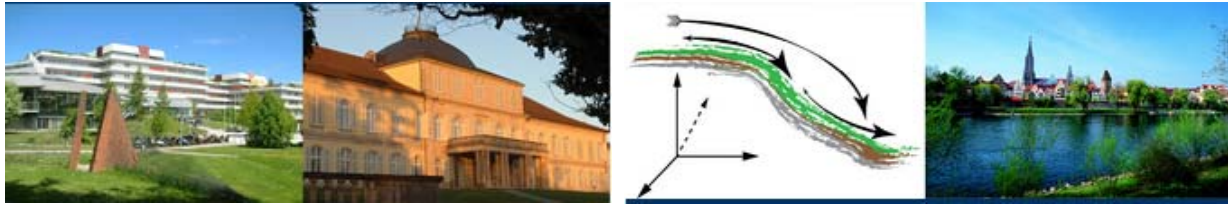
4. Small and large works

5. Geotechnical cultures

6. Risks and responsibilities of geotechnical engineers

More information at: <http://www.issmge2013.org/EN/events.php?IDManif=561&IDModule=71&IDRub=79>

Soils in Space and Time



Date: September 30th - October 4th 2013

Venue: Ulm University, Germany

Commission symposia: 1. Soil Morphology and Micromorphology; 2. Soil Geography; 3. Soil Genesis; 4. Soil Classification; 5. Pedometrics; 6. Palaeopedology; 7. Soil Mineralogy.

Conference fees: Students: 150€ (Early bird: 100€); IUSS Members: 250€ (Early bird: 200€)

More information at: <https://iuss-division1.uni-hohenheim.de/startseite>

International Symposium on Design and Practice of Geosynthetic-Reinforced Soil Structures



Date: 14-16 October, 2013

Venue: Faculty of Engineering, Bologna University, Italy

Topics: 1. Geosynthetic-reinforced soil retaining walls; 2. Geosynthetic-reinforced soil slopes; 3. Construction of reinforced embankments over soft soil; 4. Geotextile tubes; 5. Geosynthetic-reinforced soil structures for railways and highways; 6. Properties of backfill soils, geosynthetics, and soil-geosynthetic interaction.

Important Dates: Full Paper Due: November 30, 2012

Full Paper Review: February 28, 2013

Full Paper Acceptance: April 30, 2013

Details at: <http://www.civil.columbia.edu/bologna2013/>

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SEMEATO's 45 years of experience, added to the vast knowledge in agriculture practices and constant research for innovation and new technologies continuing to be the major innovator of new concepts in the Agricultural Machinery Industry, spreading No-Till practices.

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- Air Drills
- Multiple Seeders
- Haymaking line and other related implements

No Tilling around the world

SEMEATO

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JOBS

1. **Sr. Soil Agronomist** at Continental Search and Outplacement, Inc.



Location: Panhandle, OK, USA

Job Type: Full Time

If you like living in a rural area, are community oriented and are looking for a company that can boast about the tenure of their people – if you have a strong background in quality assurance and food safety – then you need to consider this very stable, environmentally sound, well established, growth oriented and profitable company that is seeking to add an experienced Environmental Manager to the staff of one of the top pork producers in the United States.

Reasons Why this is a Great Job for the Right Person:

- One of the top pork producing company's in the United States – with strong employee tenure.
- Very well established and financially strong company
- Food group is the Largest Division in the company
- Environmentally sound operations
- Growth company that is adding jobs
- Opportunities for personal & professional growth
- Competitive salary, bonus, benefits & relocation assistance

SUMMARY:

- Provide technical leadership for Management and Environmental Resource Management staff, determine agronomic land application rates, oversee the soil, crop, effluent and groundwater sampling and monitoring programs.
- Responsible for Nutrient Management planning and monitoring.
- Assure compliance with laws, permits and settlement agreements governing all areas of operations.
- Responsible for land application planning and pumping. Maintain close communication with regulators, consultants and neighbors.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

- Develop and update Nutrient Utilization Plans (NUP) and / or Comprehensive Nutrient Management Plans (CNMP) for multiple states.
- Analyze agronomic and environmental chemistry data, monitor nutrient levels in soils, effluent and groundwater by graphic and statistical methods. Calculate swine effluent land application volumes using agronomic rates.
- Analyze and make recommendations on Research & Development Area Research Projects. Oversee ongoing trials and design new trials based on operational and / or environmental emergent scenarios.
- Train, supervise and evaluate environmental management personnel in environmental and safety functions and maintain accurate related records. Training includes Environmental Sampling of Soils, Effluent and Groundwater according to specific State and Federal regulations.
- Conduct research on new technologies and practices.

- Assist Environmental Superintendents and Coordinators.
- Manage tenant farmer and landowner relations related to land application, including, but not limited to: lease payments; crop rotations; water use; weed and pest control; and timing of sampling and effluent applications. Obtain and maintain records regarding crop yields, fresh water use and commercial fertilizer applied.
- Coordinate with State representatives and consultants regarding monitoring well and leak detection system sampling and wetting front testing project.
- Must have understanding of: research methodologies, laboratory analytical methods and equipment, nutrient management on agricultural land for sustainable agriculture and farming practices.
- Must possess a Crop Adviser Certification (American Society of Agronomy) or Technical Service Provider license (National Resource Conservation Service).

EDUCATION and/or EXPERIENCE:

- Bachelors degree from a four year university and five years experience in a related field; or Masters Degree with two years experience in a related field; or an equivalent combination of education and experience.
- Educational Degrees must being obtained in Agronomy, Ag Engineering, Environmental Sciences, Biology or related field.
- Experience and/or training required on fertilization and irrigation practices with working knowledge of tractors and irrigation equipment.

Apply at: <http://www.animalsciencejobs.com/Jobs/Apply.aspx?JobAdId=793120&sitefromid=41>

2. **Wetland Scientist** for Perennial Environmental Services, LLC

Location: Houston, TX

Industries: Energy and Utilities

Job Type: Full Time

Employee Years of Experience: 2+ to 5 Years

Education Level: Bachelor's Degree

Career Level: Experienced (Non-Manager)

About the Job

Perennial Environmental Services, LLC (Perennial) is actively seeking an experienced wetland scientist to join our team of environmental professionals in a full-time, permanent, position. Perennial is a rapidly growing environmental consulting firm that provides ecological services to a variety of clients throughout the country. This individual will lead field teams in wetland delineations, threatened and endangered species surveys, baseline environmental studies and regulatory compliance audits. They will assist in the preparation and editorial review of the associated technical reports and will be directly involved in consultations with federal, state, and local environmental agencies.

The target candidate will possess a Master's or Bachelor's degree in Botany, Wildlife or Range Management, Environmental Science or Soil Science with 3 to 7 years of related experience. Candidates should possess a strong plant and soils identification background, as well as proficiency in the 1987 Corps of Engineers Wetland Delineation Manual and Regional Supplements (primarily Atlantic & Gulf Coastal Plains and/or Great Plains). Experience with rare species surveys preferred but not required. Proficiency with ArcGIS and Section 404 permitting are also preferred.

Perennial offers a highly competitive compensation and benefits package and significant potential for personal and professional growth. Qualified applicants should submit a cover letter and resume to Human Resources at HR@perennialenv.com

More information about Perennial and the services, please visit website at www.perennialenv.com

3. **Lecturers** at UNIVERSITY OF WEST LONDON, UK

Salary: £40.97 per hour

Ref: BUS001

The University of West London is a leading modern university specialising the education and development of connected, creative, business and service professionals.

The University of West London International Business School is seeking hourly paid lecturers in the following specialisms to teach on undergraduate and postgraduate courses:

Project Management	Human Resource Management
Business Economics	Strategic Management
Operations Management	Cross Cultural Management
Marketing	Small and Medium Enterprise
Organisational Behaviour	Corporate Communications
International Management	Banking, Insurance and Risk

For further information and to apply please visit: www.jobs.uwl.ac.uk



ICT International Standing Wave Technology
Soil Moisture Measurement

MPkit

MP306 MP406

<http://www.ictinternational.com/soils.html#soilmoisture>

The block contains three photographs of soil moisture measurement equipment. The first photo shows three blue cylindrical probes (MP306) lying on a dirt surface. The second photo shows a blue probe (MP406) inserted into the ground next to a white digital display unit. The third photo shows a person's hands holding a white digital display unit (MPkit) connected to a blue probe inserted into the ground. The background of the images is a dirt field.

- Applications:**
- Volumetric soil moisture content • Forest and catchment hydrology
 - Soil columns and geo-engineering • Landfill cover and mine closures
 - Irrigation scheduling

Solutions for soil, plant & environmental monitoring

www.ictinternational.com

Ph: +61 2 6772 6770 sales@ictinternational.com.au

[SOUND PRINCIPLE NO. 31]

Even grown-ups
play with cool new toys.



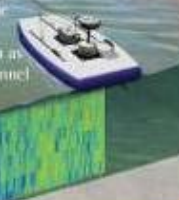
RiverSurveyor



and the new RiverSurveyor could well be
your favorite new toy too.

- ◆ Continuous shallow-to-deep discharge measurements
- ◆ Ideal for extreme flood or drought conditions
- ◆ Instant data from your mobile device
- ◆ Use in canals, streams and rivers
- ◆ Small, portable and easy to use

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profiling, bathymetric
measurement and
discharge calculation as
you transect the channel



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Questions? E-mail: inquiry@sontek.com or call +1.858.546.8327
See the RiverSurveyor-S5 in action! youtube.com/SonTekYSI

Sound Principles. Good Advice.



LANDCON Series of Meetings*

No.	Meeting topic	Place	Time
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0902	Conference of the International Erosion Control Association (IECA): Environmental Connection 09 www.ieca.org	Reno, Nevada, USA	Feb 9-12, 2009
0903	Conference on Land Degradation in Dry Environments jawadhi@kuc01.kuniv.edu.kw	Kuwait City, Kuwait	Mar 8-14, 2009
0905a	Global Change, Challenge for Soil Management: From Degradation – Through Soil and Water Conservation – To Sustainable Soil Management www.sfb.bg.ac.yu/erosion2009/	Tara Mt., Serbia	May 26-30, 2009
0905b	Conference on “The sustainable development of water resources”, organized by Hydrotechnics Faculty of “Politehnica” University of Timisoara, Romania gcr@mail.dnttm.ro	Timisoara, Romania	May 27-28, 2009
0906a	The 10th international meeting on Soil with Mediterranean Type of Climate http://www.cnrs.edu.lb/10IMSMTC.pdf	Beirut, Lebanon	Jun 22-26, 2009
0906b	Conference on “Challenges and Opportunities of Bioindustrial Watershed Development for the Prosperity of the Farming Community”, organized by the Soil Conservation Society of India www.soilcsi.org/	Bengaluru, India	Jun 25-27, 2009
0909	International Conference on Desertification in memory of Professor John B. Thornes http://fobos.bio.um.es/thornes/doku.php , arodi@um.es	Murcia, Spain	Sep 16-18, 2009
0911	International Seminar on Upland for Food Security, Faculty of Agriculture, University of Soedirman, Purwokerto, Central Java. Contact Budi Prakoso prabud2001@yahoo.com	Purwokerto, Central Java, Indonesia	Nov 7-8, 2009
1004a	Interpraevent Conference in the Pacific Rim http://interpreavent2010.nchu.edu.tw/ , scchen@nchu.edu.tw	Taipei, Taiwan	Apr 26-30, 2010
1004b	6 th National Seminar on Watershed Management and 4 th National Seminar on Soil Erosion and Sediment. wmconf6@gmail.com , seconf4@gmail.com	Noor, Iran	Apr 28-29, 2010
1005	First International Conference on Soil and Roots Engineering Relationship habibibibalani@gmail.com	Ardebil Province, Iran	May 24-26, 2010
1009	FAME 2010, an annual event organized by Green World Conferences Contact: Derek Michalski at dm@greenworldconferences.com , www.greenworldconferences.com	Berlin, Germany	Sep 13-14, 2010
1010	FIRST WASWAC COUNCIL MEETING and Int. Conf. on Combating Land Degradation in Agricultural Areas: www.ms.iswc.ac.cn , lirui@ms.iswc.ac.cn , wafe@ms.iswc.ac.cn , landcon1010@gmail.com	Xian, Shaanxi, China	October 11-15, 2010
1011	International Conference on Cooling the Earth, coolingtheearth2010@rediffmail.com , coolingtheearth2010@gmail.com , drvrsingh@rediffmail.com , www.gbpuat.ac.in	Pantnagar, India	Nov 15-17, 2010
1012a	International Geographical Union (IGU) Commission Seminar on Land Use, Biodiversity and Climate Change dr.mahfuzarahman@gmail.com , http://iguguwahati2010.org	Guwahati, Assam, India	Dec 11-13, 2010
1012b	ASADWA Arid and Semi-arid Development through Water Augmentation, Optimizing water resources in a world of water shortage, www.asadwa.ugent.be . Contact asadwa@ugent.be	Valparaiso, Chile	Dec 13-17, 2010
1101	SWAT SEA II Workshop and Conference: nguyenkimloi@gmail.com http://ssc.hcmuaf.edu.vn	Ho Chi Minh City, Vietnam	January 4-8, 2011
1103	BioWise 2011, an annual event organized by Green World Conferences, Contact: Derek Michalski at dm@greenworldconferences.com , www.greenworldconferences.com	Kuala Lumpur, Malaysia	Mar 14-15, 2011
1107a	2nd Conference on Conservation Agriculture in Southeast Asia , Contact Manuel Reyes at mannyreyes@nc.rr.com	Phnom Penh, Cambodia	July 4-7, 2011
1107b	SWAT Regional Conference and Training Workshop , Contact Li Dingqiang lidingqiang@yahoo.com ; Samran Sombatpanit samran_sombatpanit@yahoo.com	Guangzhou, China	July 24-30, 2011

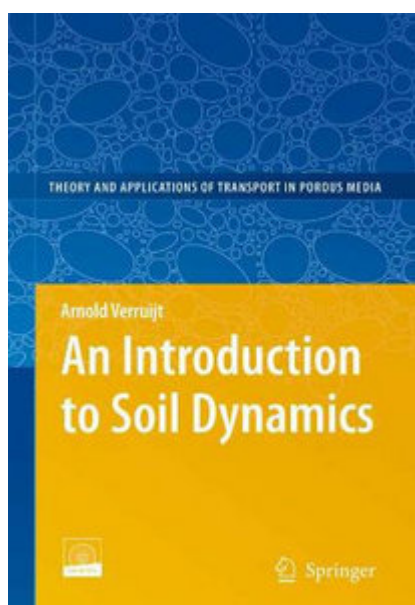
1112	1st International Symposium on Cashew Nut , Contact: Dr Ravindran, ravi_hort@yahoo.com , http://www.ishs.org/calendar/	Madurai, Tamil Nadu, India	December 9-12, 2011
1209	A conference organized by Prof Miodrag Zlatic in Belgrade, Serbia	Belgrade, Serbia	September 2012
1305	2nd WASWAC World Conference and Council Meeting , Contact Chinnapat Sukvibool at sukvibool@hotmail.com	Pattaya, Thailand	May 14-18, 2013

*See details in this issue of HOT NEWS. Organizers of these conferences have pledged to follow the Guidelines for Successful Meetings (<http://waswac.soil.gd.cn/consti-decentra.html>) that WASWAC had deliberated and achieved in 2008, to facilitate the attendance of academics and professionals so that the meetings that we recommend are of high quality, worth the expenses they have to pay if they decide to go to attend. If your meeting will meet at least 7 in 10 points (by self-appraisal) in the Guidelines, you may register the event in the LANDCON series and receive certain technical support from WASWAC at no cost. To register, write to Samran Sombatpanit at sombatpanit@yahoo.com.

If you want to advance in your career

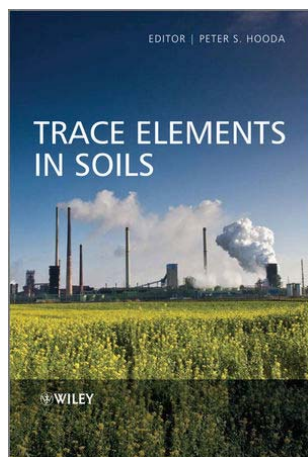
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BOOK RECOMENDATIONS



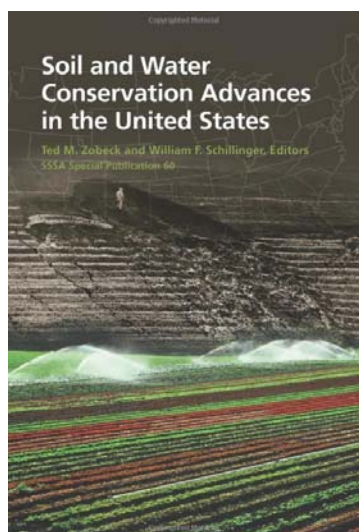
An Introduction to Soil DynamicsAn Introduction to Soil Dynamics. It presents the basic principles of soil dynamics, and a variety of solutions of practical interest for geotechnical engineering, geophysics and earthquake engineering. Emphasis is on analytical solutions, often including the full derivation of the solution, and giving the main parts of computer programs that can be used to calculate numerical data. Reference is also made to a website from which complete computer programs can be downloaded. Soil behaviour is usually assumed to be linear elastic, but in many cases the effect of viscous damping or hysteretic damping, due to plastic deformations, is also considered. Special features are: the analysis of wave propagation in saturated compressible porous media, approximate analysis of the generation of Rayleigh waves, the analysis of the response of soil layers to earthquakes in the deep rock, with a theoretical foundation of such problems by the propagation of Love waves, and the solution of such basic problems as the response of an elastic half space to point loads, line loads, strip loads and moving loads.

Series: Theory and Applications of Transport in Porous Media , Vol. 24 . Verruijt, Arnold. 2010, XIV, 434 p. 201 illus., 6 in color. With CD-ROM. Hardcover ISBN: 978-90-481-3440-3



Trace elements occur naturally in soils and some are essential nutrients for plant growth as well as human and animal health. However, at elevated levels, all trace elements become potentially toxic. Anthropogenic input of trace elements into the natural environment therefore poses a range of ecological and health problems. As a result of their persistence and potential toxicity, trace elements continue to receive widespread scientific and legislative attention. Trace Elements in Soils reviews the latest research in the field, providing a comprehensive overview of the chemistry, analysis, fate and regulation of trace elements in soils, as well as remediation strategies for contaminated soil. Written as an authoritative guide for scientists working in soil science, geochemistry, environmental science and analytical chemistry, the book is also a valuable resource for professionals involved in land management, environmental planning, protection and regulation.

This book was edited by P. Hooda. Hardcover. 592 pages. April 2010, Wiley-Blackwell. ISBN: 978-1-4051-6037-7.



Have agricultural management efforts begun in the desperation of the Dust Bowl brought us to where we need to be tomorrow? Questions about the environmental footprint of farming make this book required reading. Approximately 62% of the total U.S. land area is used for agriculture, and this land also provides critical ecosystem functions. Authors from each region of the continental United States describe the progress of soil and water conservation to date and visualize how agricultural production practices must change in future years to address the newest challenges.

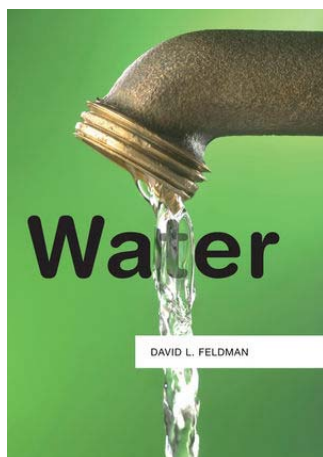
This book was edited by Ted M. Zobeck and William F. Schillinger. ISBN 978-0-89118-852-0. Hardcover, 320 pp.



The European Atlas of Soil Biodiversity provides a comprehensive source of information for researchers, policy makers and teachers, and a contribution to the International Year of Biodiversity. It selects and ranks potential threats to soil biodiversity, including land use change, habitat disruption, intensive human exploitation, invasive species, soil compaction, erosion and pollution. The map provides an evaluation of the potential risk of soil biodiversity decline with respect to the current situation, showing that the risk of decline in soil biodiversity due to human-induced pressures tends to be highest in areas of high population density and/or intense agricultural activity.

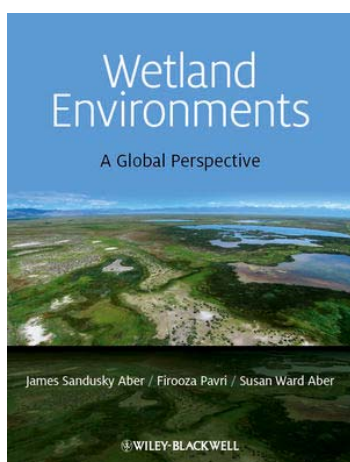
Catalogue Number: LB-NA-24375-EN-C. 128pp.

ISBN: 978-92-79-15806-3, ISSN: 1018-5593. Price: Euro 25.00.



Water is our planet's most precious resource. It is required by every living thing, yet a huge proportion of the world's population struggles to access clean water daily. Agriculture, aquaculture, industry, and energy all depend on it - yet its provision and safety engender widespread conflict; battles likely to intensify as threats to freshwater abundance and quality, such as climate change, urbanization, new forms of pollution, and the privatization of control, continue to grow. But must the cost of potable water become prohibitively expensive for the poor - especially when supplies are privatized? Do technological advances only expand supply or can they carry hidden risks for minority groups? And who bears responsibility for managing the adverse impacts of dams funded by global aid organizations when their burdens fall on some, while their benefits accrue to others? In answering these and other pressing questions, the book shows how control of freshwater operates at different levels, from individual watersheds near cities to large river basins whose water - when diverted - is contested by entire countries. Drawing on a rich range of examples from across the world, it explores the complexity of future challenges, concluding that nations must work together to embrace everyone's water needs while also establishing fair, consistent criteria to promote available supply with less pollution.

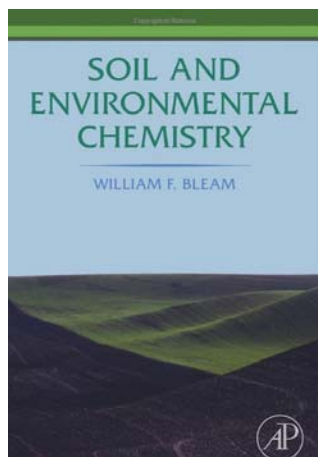
ISBN: 978-0-7456-5033-3. 200 pages.



Wetlands - swamp, marsh, bayou, tundra and bog - are places that are rarely visited and often misunderstood but they have, in fact, conspicuous roles in the physical, biological and cultural geography of the world. They are intrinsically beautiful environments where one may see the natural and essential values in the interaction of water, soil, vegetation, wildlife, and humans. Wetlands occur at the confluence of unique terrestrial, hydrological and climatic conditions that give rise to some of the most biodiverse regions of the world. They also play vital roles in the cycling and storage of key nutrients, materials and energy through the Earth's system. A complete study of wetland environments requires the assessment of their physical and biological attributes, properties and functions of these ecosystems, and the economic, political and social aspects that mediate their use globally. A systems approach is taken throughout this book which emphasizes the interactions between these elements of wetland ecosystems. Moreover, selected case studies from across the world are used to illustrate wetland characteristics and circumstances.

This book is intended to foster a greater awareness and appreciation of wetlands, promote a culture of conservation and wise management, and spread the knowledge that wetlands are important, indeed crucial, elements of the global environment. Our attempts to understand, manage and enhance wetlands in the twenty-first century are part of the larger effort to maintain a sustainable Earth.

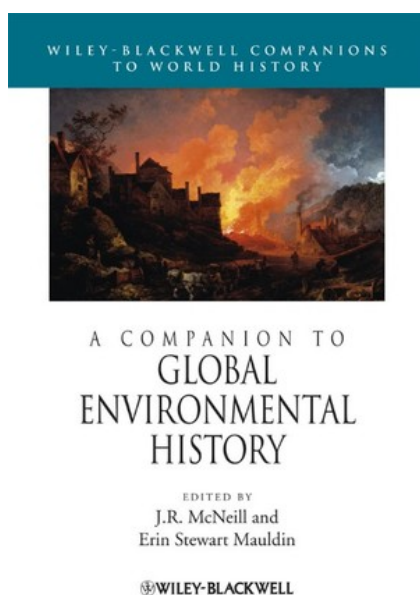
ISBN: 978-1-4051-9841-7. Hardcover, 440 pages.



Soil and Environmental Chemistry emphasizes the problem-solving skills students will need when they enter their chosen field. Combining valuable soil chemistry concepts into the “big picture” by discussing how other soil and environmental factors affect the soil chemical concepts being discussed makes the text relevant to today’s soil science curriculums.

This book was written by William Bleam (University of Wisconsin-Madison, Madison, Wisconsin, USA). Published: JUL-2011.

ISBN 13: 978-0-12-415797-2. Hardbound, 496 Pages.

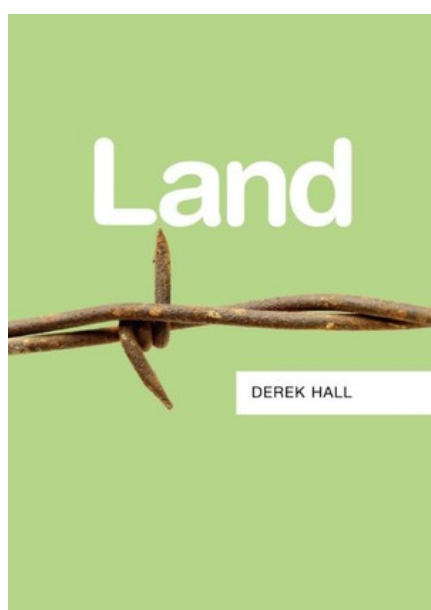


The Companion to Global Environmental History offers multiple points of entry into the history and historiography of this dynamic and fast-growing field, providing an essential road map to past interpretations, current controversies, and future developments for specialists and newcomers alike. Combining temporal, geographic, thematic, and contextual approaches from prehistory to the present day, it explores environmental thought and action in a cultural, intellectual, and political context around the world. This resource is relevant to a number of areas of study, including history, environmental studies, geography, anthropology, and archaeology.

Edition October 2012. ca. 155.- Euro

ISBN 978-1-4443-3534-7

2012. 568 Pages, Hardcover



Land is one of the world's most emotionally resonant resources, and control over it is fundamental to almost all human activity. Struggles over land, argues Derek Hall, relate to three basic principles: its role as territory, its status as property, and the ways in which its use is regulated. This timely introduction explores key dimensions of these themes, including inter-state wars over territory, the efforts of non-governmental organizations to protect property rights and environments in the global South, and the 'land grabs' attempted by contemporary corporations and governments. Drawing on a wide range of cases and examples - from the Afghanistan-Pakistan border to the Canadian Arctic, China's urban fringe to rural Honduras - the book provides new ways of thinking about the political dynamics of land in the 21st century. This richly detailed and authoritative guide will be of interest to students across the social sciences, as well as anyone interested in current affairs and contemporary geopolitics.

Edition October 2012. ca. 16.90 Euro

ISBN 978-0-7456-5277-1

2012. 176 Pages, Softcover

LAND AND SOIL MANAGEMENT AWARD

CALL FOR APPLICATIONS

Information and documents: <http://www.europeanlandowners.org/about/awards>



Created by: The European Landowner's Organization (ELO) under the auspices of the European Commission (DG Environment and the Joint Research Centre) in association with the University of Natural Resources and Life Sciences (BOKU) of Vienna, Syngenta International and the Centre for Soil and Environmental Sciences of the Ljubljana University

Deadline: 30th November 2012

Prize: With an amount of 5000 € and a diploma of recognition

Eligibility: This prize will reward professionals working in the area of land use and soil management pursuing the EU's soil protection goals, in particular those of the Soil Thematic Strategy.

Aim: To encourage new concepts of protection and their implementation and to enhance awareness of the importance of land and soil in connection with good agriculture and environmental conditions.

How: Fill in the application form; Send the application by post and by email to the contact details below.

Contact:

Contact person: Ana Rocha; European Landowners' Organization; Rue de Trèves 67; BE - 1040 Brussels

Tel: +32 (0)2 235 20 04; Fax: +32 (0)2 234 30 09

Email: forest@elo.org

Webpage : www.elo.org



Academic Advance



JOINT RESEARCH CENTRE

European Soil Portal - Soil Data and Information Systems

SoilTrEC : Soil Transformations in European Catchments

Project acronym: SoilTrEC
Project full title: Soil Transformations in European Catchments
Instrument: Collaborative Project FP7
Grant agreement no.: 244118
Call: ENV.2009.2.1.3.1 Soil Processes and Modelling ; **Start:** 01/12/2009 **Duration:** 60m;
Consortium: 15 partners from Europe and the World (China + United States of America).
Project Coordinator: University of Sheffield (UK)
Project Web Site: <http://www.soiltr.ec.europa.eu/projects/soiltr/ec/>, <http://eu-soils.jrc.ec.europa.eu/projects/soiltr/ec/>
Key words: Soil, critical zone, soil processes, soil function, mathematical modelling, soil life cycle, sustainability, ecosystem services, observatories, policy
Download the [SoilTrEC factsheet](#) and the "State of our soils" (Research Media Publication)
Press Release of European Commission DG RTD: [Global Soils threatened: EU, USA and China join forces in research](#) (Brussels, 15/02/2010)



The Challenge

Through unsustainable land use practices, mining, deforestation, urbanisation and degradation by industrial pollution, soil losses are now hypothesized to be much faster (100 times or more) than soil formation with the consequence that soil has become a finite resource.

The crucial challenge for the SoilTrEC project is to understand the rates of processes that dictate soil mass stocks and their function within Earth Critical Zone (CZ). The CZ is the environment where soils are formed, degrade and provide their essential eco-services. Whilst our understanding of the CZ has increased over the last 100 years, further advance requires scientists to cross disciplines and scales to integrate understanding of processes in the CZ, ranging from the nano to the global-scale.

Project Objectives

The aims of SoilTrEC are to address the priority research areas identified in the EU Soil Thematic Strategy and to provide leadership for a global network of Critical Zone Observatories (CZO) committed to soils research.

The specific objectives are to:

- Describe from 1st principles how soil structure impacts processes and function in soil profiles,
- Establish 4 EU Critical Zone Observatories to study soil processes at field scale,
- Develop a Critical Zone Integrated Model of soil processes and function,
- Create a GIS-based modelling framework to delineate soil threats and assess mitigation at EU scale,
- Quantify Impacts of changing land use, climate and biodiversity on soil function and economic value,
- Form with international partners a global network of CZOs for soils research, and
- Deliver a programme of public outreach and research transfer on soil sustainability.

The critical scientific aim is to: strongly advance the fundamental knowledge of soil processes and functions from lab- to EU-scale and create a step-change in the evidence base to support EU soil policy. A further critical aim is to harness this new fundamental knowledge to new decision support tools that assess soil Impacts. The priority is to develop methods that analyse soil threats quantitatively and assess how Responses such as land management practice can improve and restore soil functions, and ensure that their economic value can be maintained sustainably. A critical aim of the international CZO network activity is to enable the design of CZ experiments across global environmental gradients in order to anticipate the Impact of longer-term temporal changes in factors such as climate. A further priority of this CZO network is to build a vibrant interface between soils researchers and the broader community of stakeholders who are involved in soil policy and management. In order to meet these critical aims, the SoilTrEC consortium proposes a 5-year programme of research. Over this period, project success will be measured by the scheduled delivery of priority data sets, tested modelling codes and the results of new assessments of soil sustainability as milestones within the programme of work.

Methodology

SoilTrEC has a focus on developing fundamental knowledge through detailed study of relatively well-constrained systems (soil profiles) under controlled laboratory conditions. These studies are then extended to progressively more complex systems (field plots, catchments, rivers basins) at increasingly larger scales.

Development of a Critical Zone integrated model for soil processes combines methods from physical hydrology and biogeochemical simulations with carbon transformation and ecosystem food web dynamics.

At the same time, higher-level analysis based on decision support tools being developed from Life Cycle Analysis and Economic Valuation approaches, feeds back to the fundamental studies. This helps identify the most urgent problems and targets the fundamental scientific research. This two-way transfer of knowledge is a strongly integrating activity that builds constructive engagement between all partners and disciplines.

The four SoilTrEC CZOs represent key stages in the life cycle of soils; from soil formation, through productive use, to severe degradation of soils. Understanding evolution of soil processes through this life cycle is a new aspect of soils research that the international community is currently not addressing.

SoilTrEC will utilise international dissemination and training as integrating activities that build engagement between consortium partners, and also between researchers and stakeholder partners who are involved. These include EC policy teams, national agencies, companies and land managers.

Expected Results

The focus of research activities on the CZOs creates an unprecedented critical mass of effort in soils research within a single project.

Laboratory data sets and mathematical modelling of soil processes will provide some of the most comprehensive data sets ever obtained on soil function from nano to soil profile scale.

Detailed process models of physical hydrology, biogeochemistry, carbon dynamics and the soil food web at the EU CZOs will provide the first ever evaluation of soil functions at different stages of the soil life cycle.

Soil processes will be evaluated with the CZ integrated model, from catchment to river basin scale. This includes prototype results for upscaling to assess European soil threats.

The 4 SoilTrEC CZOs will be integrated with additional EU, USA and Chinese field sites as the first global network of CZOs. This enables soil processes and threats to be studied along environmental gradients at planetary scale.

The CZ integrated model will be applied across the global network of sites. This will create a major, new evidence base for policy in the EU, EU member states as well as the US and China.

Pro-active engagement with stakeholders draws on the knowledge gained from the CZO network, the modelling and decision support. This will be extended by studying affiliated sites where land management is presumed sustainable and will provide evidence-based guidance for sustainable soil management practice.

Project Partners

- 1 University of Sheffield GB <http://www.shef.ac.uk>
- 2 N. Poushkarov Institute for Soil Sciences BG <http://www.iss-poushkarov.org>
- 3 Technical University of Crete GR <http://en.tuc.gr/>
- 4 Deltares NL <http://www.deltares.nl>
- 5 European Community represented by the European Commission Directorate General Joint Research Centre EU <http://eusoils.jrc.ec.europa.eu>
- 6 University of Iceland IS <http://www.hi.is>
- 7 Wageningen University NL <http://www.wageningenuniversiteit.nl/UK/>
- 8 University of Natural Resources and Applied Life Sciences AT <http://www.boku.ac.at>
- 9 NERC Centre for Ecology and Hydrology GB <http://www.nerc.ac.uk>
- 10 Swiss Federal Institute of Technology (Zurich) CH <http://www.ethz.ch>
- 11 Czech Geological Survey CZ <http://www.geology.cz/extranet-eng>
- 12 Institute of Agricultural Resources and Regional Planning CAAS CN <http://www.iarrp.cn>
- 13 The Pennsylvania State University US <http://www.research.psu.edu/osp/index.html>
- 14 Swedish University of Agricultural Sciences SE <http://www.slu.se>
- 15 Centre National de la Recherche Scientifique CNRS FR <http://www.cnrs.fr>

Details at : <http://eusoils.jrc.ec.europa.eu/projects/Soiltrec/>

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(For applicants from all countries)

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Institution:.....

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Emails (Please give at least 2 addresses to ensure uninterrupted contact): (1).....

(2)..... (3).....

My specialized field(s):.....

Please sign me up for the WASWAC membership in category*: ☐ 1(IM) ☐ 2(LM) ☐ 3(OM) ☐ 4(SM&GM)

Membership for the year(s).....@US\$..... = US\$

Donation for developing country membership, etc. US\$

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Total US\$

*Membership categories & rates from July 18, 2005, amended March 3, 2007 and March 4, 2010.

(Please ask samran_sombatpanit@yahoo.com if in doubt).

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3. OM (Organization membership): For universities, research and implemental institutions, government agencies, NGOs, societies, associations and international organizations, etc. Persons belonging to an Organization member will receive the same online products and services as the other two above categories: \$100/year for an organization with up to 150 persons; \$150/year for an organization with up to 300 persons; \$200/year for an organization with up to 500 persons; and \$10/year for an additional 100 persons or part thereof.

4. SM&GM (Student membership & Gift membership): US\$5/year worldwide, to be purchased to give to colleagues, friends, students, etc.

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waser_secretariat@yahoo.com.cn. Membership fee can be sent through **Check**, **Bank Draft**, **Bank Transfer** and **WESTERN UNION**.

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A/C NO.: 3467 5879 1740; **Swift code:** BKCH CN BJ 110

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