

WASWAC HOT NEWS 2013 (11) November 2013

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Please send your contributions/ information for next issue(s) of HOT NEWS & WASWAC Bulletin to waswac@foxmail.com, iswcr@foxmail.com, care_045@yahoo.com & sskukal@rediffmail.com (for Bulletin).

This document is NOT properly edited, to enable a quick release to meet many deadlines.

New information please visit our official website <http://www.waswac.org>.

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

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2013 Annual Conference for Science and Technology Support Committee of Chinese Society of Soil and Water Conservation

2013 Annual Conference for Science and Technology Support Committee of Chinese Society of Soil and Water Conservation was held in Wuhan, Hubei Province on 9th, November, 2013. Prof. Kuang Shangfu, the head of IWHR, was chaired the opening ceremony. Prof. Liu Zhen, the head of soil and water conservation department of MWR and prof. Yang Chun, the deputy director of Changjiang Water Resource Commission, attended this conference. About 100 officers, researchers in related affiliations of this committee participated in this conference.



The Opening Ceremony

What have been done during the past 3 years was summarized comprehensively by prof. Cao Wenhong. The new leaders group for next term was elected. Academician Fu Bojie of CAS, and Mr. Chen Su-Chin, the professor of Chung Hsing University were accepted the invitation

showed and made excellent reports with title “The Study on Ecological System Service in the Loess Plateau” and “Disaster Prevention, Control and Management in slope area of Taiwan, China” respectively.



Academician Fu Bojie of CAS



Prof. Chen Su-Chin

The overall introduction on WASWAC World Conference II, the preliminary result for national compartment on soil and water conservation, the achievement of the soil erosion survey in the first national water census, the crucial technologies of gully reclamation in northern Shannxi province, the key technologies in soil and water conservation in farmland were reported. In addition, progresses in the comparison for water erosion models in China, the soil and water conservation benefits in southwest Karst Rocky Desertification Area and the influence of soil erosion on crop yield in farmland in northeast black soil region, were also communicated in this conference. These achievements are very meaningful and representative of the advance in soil and water conservation research study in China.



Prof. Liu Zhen, Director of soil and water conservation department, MWR



Prof. Kuang Shangfu, President of IWHR

The basic information on some affiliation, e.g. the department of soil and water conservation of Yangtze River scientific research institute, Jiangxi institute of soil and water conservation, key lab of soil loss process and control in loess plateau of MWR, were introduced. Some great achievements, such as the informatization on soil and water conservation in Beijing, the innovation of technology on soil and water conservation in Zhejiang province, the invention of new materials on soil and water conservation, were also illustrated.



Prof. Ning Duihu



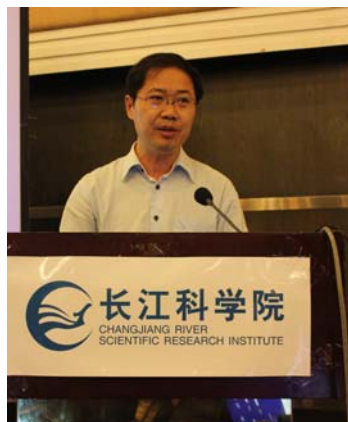
Prof. Liu Guobin



Prof. Cao Wenhong



Prof. Zhang Pingcang



Prof. Li Zhiguang



Prof. Wang Zhiguo



Prof. Yang Jie



Prof. Zheng Fenli



Prof. Duan Shuhuai

Director Liu Zhen, the president for the committee for the first term, and was elected to continue his position for the next term, gave the summary words in the closing ceremony. In his speaking, the jobs have been done by the committee for first term is much appreciated for their efforts in high level projects designing and developing, scientific conference holding and participating, national soil and water conservation ecological civilization creation and keeping, and national education base evaluation for preliminary and middle school. Finally, Prof. Liu analyzed the new circumstances and missions of soil and water conservation in next term, and pointed out the key jobs will be focused in following things: (1) to push a series of key scientific research projects; (2) to strengthen the communication and cooperation through playing a role of bridge; (3) to accelerate the transformation of scientific and technical achievements; (4) to improve the platform of coordination; (5) to enhance the popular science propaganda and technical training.

[SOUND-PRINCIPLE NO. 31]

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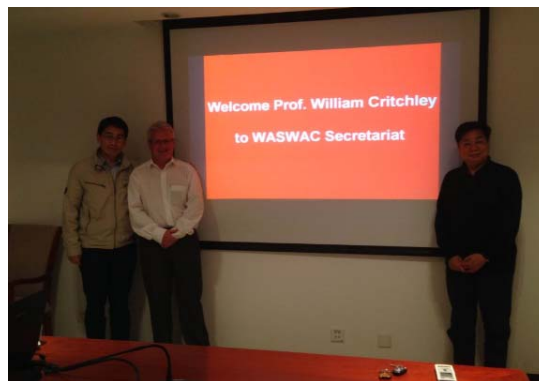
Prof. William Critchley visits the Secretariat of WASWAC

Prof. William Critchley, the Associated President of WASWAC, visits the Secretariat on the afternoon of 15 November 2013. Meaningful meeting was held during his visit. Participants include Prof. Li Rui, the President, Prof. Ning Duihu, the Secretary-general, Prof. Liu Xiaoying, the treasure, and Dr. Du Pengfei, the Secretary of WASWAC.

The relevant things were discussed in following topics:

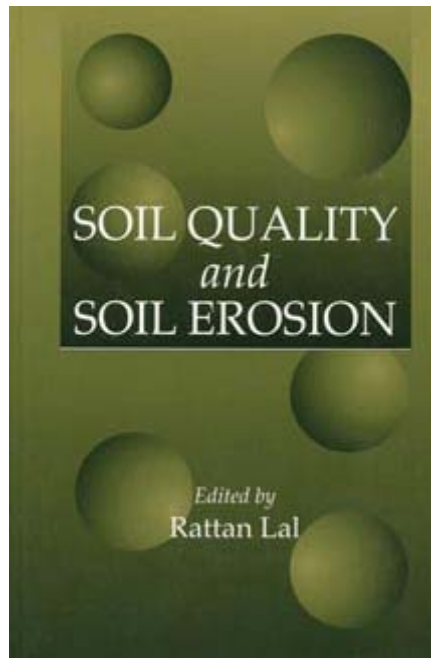
- (1) the recent developments of WASWAC
- (2) the next plan of development
- (3) the editorial process of papers for the journal of ISWCR
- (4) the ways to attract more papers with high scientific quality

In addition, the effective ways to make five committees more efficient were also discussed. Prof. William Critchley expressed strong wishes to play important role in making our association and journal more influential.



BOOK INTRODUCTIONS

1. Soil Quality and Soil Erosion



This work examines the issue of accelerated soil erosion, which has become an increasingly serious concern in the twentieth century. Aspects considered include on-site impact of erosion; application of soil science to problems of non-agricultural uses of soil, such as mineland restoration, urban uses and disposal of urban wastes; soil contamination and pollution by industrial activities; and athletic and recreational uses of soil. Soil Quality and Soil Erosion will be a useful text for soil scientists, agronomists, foresters, and environmental scientists as we enter the next century.

SOIL QUALITY *and* SOIL EROSION

Edited by
Rattan Lal



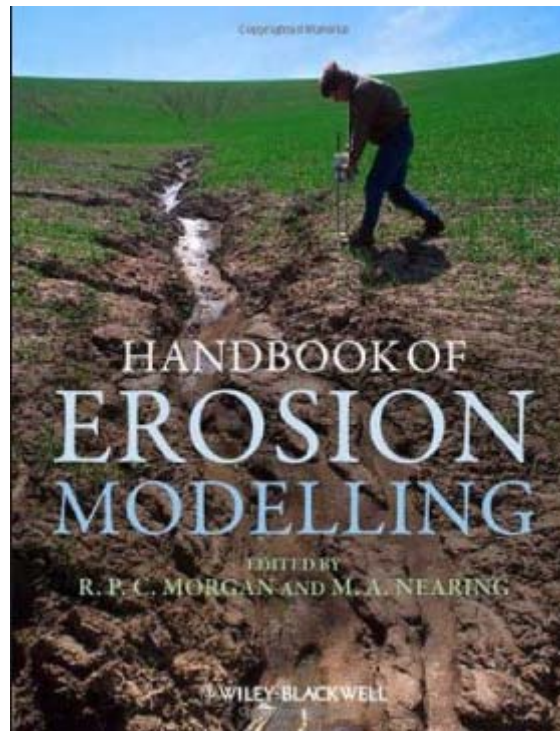
CRC Press
Boca Raton London New York Washington, D.C.

(S) SWCS. For Individual Use Only.

Basic Information:

- ✧ Hardcover: 352 pages
- ✧ Publisher: CRC Press; 1 edition (September 24, 1998)
- ✧ Language: English
- ✧ ISBN-10: 1574441000
- ✧ ISBN-13: 978-1574441000

2. Handbook of Erosion Modelling



The movement of sediment and associated pollutants over the landscape and into water bodies is of increasing concern with respect to pollution control, prevention of muddy floods and environmental protection. In addition, the loss of soil on site has implications for declining agricultural productivity, loss of biodiversity and decreased amenity and landscape value. The fate of sediment and the conservation of soil are important issues for land managers and decision-makers. In developing appropriate policies and solutions, managers and researchers are making greater use of erosion models to characterise the processes of erosion and their interaction with the landscape.

A study of erosion requires one to think in terms of microseconds to understand the mechanics of impact of a single raindrop on a soil surface, while landscapes form over periods of thousands of years. These processes operate on scales of millimetres for single raindrops to mega-metres for continents. Erosion modelling thus covers quite a lot of ground.

This book introduces the conceptual and mathematical frameworks used to formulate models of soil erosion and uses case studies to show how models are applied to a variety of purposes at a range of spatial and temporal scales. The aim is to provide land managers and others with the tools required to select a model appropriate to the type and scale of erosion problem, to show what users can expect in terms of accuracy of model predictions and to provide an appreciation of both the advantages and limitations of models. Problems covered include those arising from agriculture, the construction industry, pollution and climatic change and range in scale from farms to small and large catchments. The book will also be useful to students and research scientists as an up-to-date review of the state-of-art of erosion modelling and, through a knowledge of how models are used in practice, in highlighting the gaps in knowledge that need to be filled in order to develop even better models.

Hardcover: 416 pages

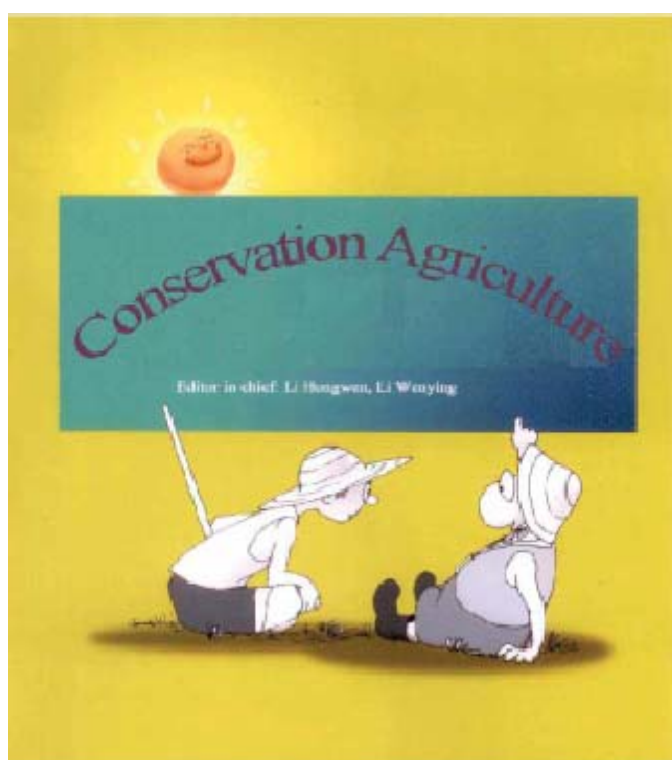
Publisher: Wiley-Blackwell (17 Dec 2010)

Language: English

ISBN-10: 1405190108

ISBN-13: 978-1405190107

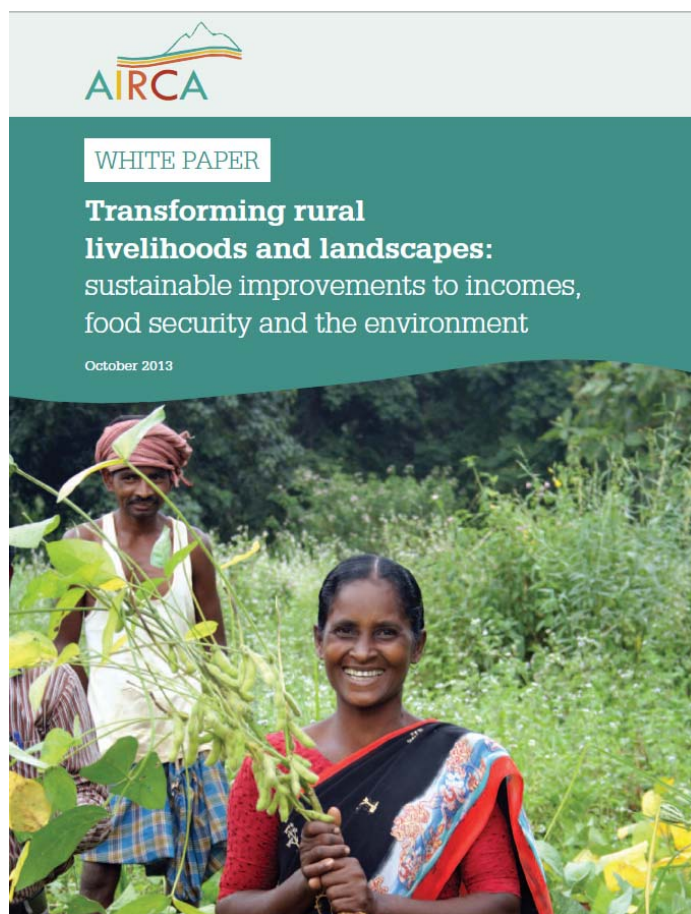
Conservation Agriculture Cartoon Book



This cartoon book with multi-language can be downloading at:

<http://www.cn-ct.net/index.aspx?menuid=11&type=model&lanmuid=63&language=en>

Transforming rural livelihoods and landscapes: sustainable improvements to incomes, food security and the environment



A growing world population, combined with economic and social development, will continue to lead to increased demand for the outputs of agriculture – food, fodder, fuel and fibre. Simply increasing the amount of land dedicated to agriculture to meet this demand is neither desirable nor feasible. Instead, it has become essential to grow more with the same, or fewer, inputs of water, energy and chemicals; lose less of what is produced; maintain the long-term health of the land, ecosystems, people, plants and animals involved in agricultural production; and deliver prosperity. These are the ingredients of sustainable agricultural intensification.

Capturing the synergies and managing the trade-offs involved in sustainable intensification means tackling these challenges at the landscape level. Landscapes encompass a diversity of interactions between people and environment, and between agricultural and non-agricultural systems. Healthy landscapes not only exhibit healthy ecosystems, but also sustain productive agriculture and communities.

In economically sustainable rural communities, agriculture is perceived as a respected profession that provides an adequate living, and farmers are motivated to stay in the rural landscape rather

than seeking higher income in the cities. Sustainable agriculture therefore requires farms that operate at an economically viable scale, and farmers who can make informed decisions about the production and marketing of their output. Thus, any landscape strategy must also have a vision of how to help communities make businesses out of their activities in the environment. In some areas, this may not be possible through farming alone, so additional sources of sustainable, environmentally friendly value must be created. Financial mechanisms, incentives and training are needed to connect farmers to markets and ensure that they obtain a fair share of this value.

Women play essential roles in agriculture – providing inputs, managing production, stewarding natural resources and generating off-farm income – but often benefit less than men. High-value agricultural production chains are usually run by male-dominated institutions, while women are often limited to local markets where they sell low-quality and residual products. All landscape-level interventions therefore need to attend to this imbalance through gender mainstreaming, in order to maximize the benefits of agriculture to women farmers, providing incentives to increase their productivity.

The need for integrated action to deliver sustainable agricultural intensification at the landscape scale has stimulated the formation of the Association of International Research and Development Centres for Agriculture (AIRCA, www.airca.org), a nine-member alliance focused on increasing food security by supporting smallholder agriculture and rural enterprise within healthy, sustainable and climatesmart landscapes. The member organizations all have a proven track record of research, development and implementation, working closely with farmers, extension systems, national research institutes, non-governmental organizations (NGOs) and the private sector across a wide range of crops and ecosystems. This paper sets out our combined experience of successful approaches, opportunities and challenges in moving farmers from a subsistence to a business basis – and their communities from poverty to prosperity.

Through sharing AIRCA's knowledge and experience in creating healthy landscapes, we seek to raise awareness of the benefits of landscape approaches among potential stakeholders in the agricultural and environmental sectors. We make the following recommendations to increase agricultural productivity in a responsible and sustainable manner, while also achieving healthy development at the landscape level:

*Scaling out of integrated management approaches to seed selection, soil fertility, water utilization, agronomy and pest management and preserving and utilizing crop diversity, in order

to arrive at Transforming rural livelihoods and landscapes: sustainable improvements to incomes, food security and the environment 2 crop selections, cropping systems and practices of land management which are balanced and optimized in the context of the local environment and needs for income, food and nutritional security.

*Capacity strengthening at local and regional levels to improve productivity, market access and landscape management in an inclusive manner by involving women, young people, indigenous communities and marginalized groups, and incorporating traditional knowledge.

*Policy development and implementation at local, national and regional levels to capture the economic value of outputs from landscapes, but also to balance these against the long-term values of ecosystem services, biodiversity and interventions at the landscape scale.

To achieve these aims and improve the health of humans, plants, animals and landscapes in an integrated manner, a broad range of core competencies are required. We encourage the creation of innovative funding mechanisms that will stimulate and facilitate the formation of integrated partnerships between research and development organizations, countries and regional networks in order to deliver practical solutions with impact at the necessary scale, the capacity to sustain these interventions over time, and the development of sound policy to underpin them.

Full text (42 pages) available at: <http://www.inbar.int/publications/?did=286>

WHITE PAPER

Transforming rural livelihoods and landscapes:
sustainable improvements to incomes,
food security and the environment

Nicholls, T., Elouafi, I., Borgemeister, C., Campos-Arce, J.J., Hermann, M., Hoogendoorn, J., Keatinge, J.D.H., Kelemu, S., Molden, D.J. and Roy, A.

October 2013

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MEETINGS

Registration Includes:

- Soup and Sandwich supper January 6
- Lunch on January 7
- Beer and Bull Supper Session January 7
- Access to the Trade Show
- Workshop Booklet
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Zero Tillage Farmers Association
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Pre-Registration (by December 16).....\$150

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Barry Todd

Dr. Barry Todd holds a B.S.A. in plant science and a Ph.D. in weed science from the University of Manitoba. He has an extensive background in soils and crop protection. In 2003 was appointed Deputy Minister of Agriculture, Food and Rural Initiatives. From the BSE crisis in 2003 to the floods of 2013 he worked closely with agricultural organizations to ensure that producers and rural communities received support as they dealt with many challenges while working diligently to capture the opportunities created by the expanding global agri-food sector. Barry has also provided leadership in the establishment of Manitoba's nutraceutical and functional food research and commercialization cluster, and was a recipient of the Queen Elizabeth II Diamond Jubilee Medal in recognition of those efforts.

Yvonne Lawley

Dr. Yvonne Lawley is an assistant professor in the Plant Science Department at the University of Manitoba. Her area of research is agronomy and cropping systems. Yvonne received her PhD in soil science from the University of Maryland (2010), a MSc in plant science from the University of Saskatchewan (2004), and a BSc in agronomy from the University of Manitoba (2002). Prior to joining the University of Manitoba, Yvonne was a Research Agronomist at North Dakota State University's Carrington Research Extension Center. To date Yvonne's research has focused on the agronomy of soybeans, corn, and cover crops in Manitoba cropping systems.



Jon Stika

Jon Stika is an area resource soil scientist and soil health instructor with the USDA Natural Resource Conservation Service (NRCS) at the Area Office located in Dickinson, ND. Jon has been extensively involved with soils education for nearly 30 years and with his enthusiasm and passion for soil health and his practical approach to solving problems in soils, he is often invited to present at workshops throughout North America. Jon's other passion is brewing beer. How does soil health and brewing beer go together? Attend the session and find out.

Larry Cihacek

Dr. Larry Cihacek is an associate professor of soil science, North Dakota State University, Fargo, ND. He is a certified professional agronomist and soil scientist specializing in fertilizer management in tillage and cropping systems, and the inter-relationships between cropping systems and soil physical properties. He served on numerous task forces including water quality and irrigation. Larry has also authored or co-authored more than 80 papers and Extension publications on these subjects and has appeared in programs such as *Salts of the Earth*.



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Monday, January 6, 2014

4:30 pm Registration Opens
6:00 pm Soup & Sandwich Bar
6:30 pm Association Annual Meeting
7:00 pm International Show and Tell

5:15 - 7:00 pm

International Beer & Bull
(Tradeshow closes at 10pm)

6:30 - 7:00 pm

Beginning Zero Tillage Production

7:00 - 9:00 pm

Farmer Rap Sessions
(Concurrent Sessions)

7:00 pm

Room 1: Soil Testing
Room 2: Field Mapping
Soil, yield, EC, satellite NDVI maps

Tuesday, January 7, 2014

7:00 am Registration & Tradeshow Open
8:15 - 8:30 am Welcome & President Remarks
Chris Rhode
8:30 - 9:15 am Keynote Address - Dr. Barry Todd
9:15 - 10:00 am Soil Health - Components & Complexities - Dr. Abbey Wick
10:00 - 10:45 am Break
10:45 - 11:30 am Evaluating Your Soil Health and Ways to Improve it - Jon Stika
11:30 - 12:15 pm Soil Testing, The Science: Types/ testing methods, how & why it's done, understanding, interpreting, and recommendations - Dr. Kris Nichols
12:15 - 1:30 pm Awards Luncheon
1:30 - 2:15 pm Economics of Better Soil Health & Zero Tillage: How it'll make you \$'s
2:15 - 3:00 pm Soil Compaction: Is There a Role for Vertical Tillage? - Marla Riekman
3:00 - 3:45 pm Break
3:45 - 4:30 pm Controlled Traffic Agriculture - Steve Larouque
4:30 - 5:15 pm "To Drain or Not to Drain:" surface, internal and tile - Dr. Larry Cihacek

8:00 pm

Room 1: Cover Crops
Room 2: Zero Tilling-Corn & Soybeans

Wednesday, January 8, 2014

8:30 - 9:15 am

Technology Opportunities: Riding the Wave; cell/smart phones, reception and multi-devices - BJ Hersak

9:15 - 10:00 am

Cover Crops: Opportunities and Challenges Moving North
Dr. Yvonne Lawley

10:00 - 10:45 am

Break

10:45 - 11:30 am

Weed Resistance Scorecard/Update
Dr. Kirk Howatt

11:30 - 12:15 pm

Zero Till Journey: Past to Present
Early Adopter/President - Bob McNabb

12:15 - 12:30 pm

Closing Remarks & Adjourn
Chris Rhode

12:30 - 2:30 pm

Extra Session Roundtable: Lunch and visiting with speakers in small groups

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Special Issues

If your abstract is accepted for presentation at the 20WCSS, you are encouraged to submit your manuscript for publication in *special issues of Plant and Soil*, *Chemosphere*, *Geoderma*, *Soil Science Society of America Journal*, *Korean Journal of Soil Science* and *Fertilizer* and so on.

* Special issues for the Biochar Symposium have been arranged by Plant and Soil and Chemosphere. Information on other special issues will be updated soon.



Congress Symposia Speakers



Alex McBratney

The University of Sydney
Australia



Alfred Eduard Hartemink

University of Wisconsin – Madison
USA



Don Sparks

University of Delaware
USA



Johan Bouma

Wageningen University
The Netherlands

Travel Grant

Participants who would like to apply for a travel grant are asked to submit an application form to the 20WCSS Secretariat (wcscs@20wcscs.org) by March 20, 2014. After reviewing all of the application forms, we will announce the nominees.

[Application Form](#)

[See more About](#)

SYMPOSIA

[more](#)



4 Congress Symposia
15 Inter-Divisional Symposia
7 Divisional Symposia
48 Commission Symposia
13 Working Group Symposia

PROGRAM

| June 8 (Sat) | June 9 (Sun) | June 10 (Mon) | June 11 (Tue) | June 12 (Wed) | June 13 (Thu) |
|---|---|---|---|---|---|
| Registration & Welcome Reception | Registration & Welcome Reception | Registration & Welcome Reception | Registration & Welcome Reception | Registration & Welcome Reception | Registration & Welcome Reception |
| Keynote: <i>Soil Science and the Future of Food</i> | Keynote: <i>Soil Science and the Future of Food</i> | Keynote: <i>Soil Science and the Future of Food</i> | Keynote: <i>Soil Science and the Future of Food</i> | Keynote: <i>Soil Science and the Future of Food</i> | Keynote: <i>Soil Science and the Future of Food</i> |
| Plenary Session: <i>Soil Science and the Future of Food</i> | Plenary Session: <i>Soil Science and the Future of Food</i> | Plenary Session: <i>Soil Science and the Future of Food</i> | Plenary Session: <i>Soil Science and the Future of Food</i> | Plenary Session: <i>Soil Science and the Future of Food</i> | Plenary Session: <i>Soil Science and the Future of Food</i> |
| Workshop: <i>Soil Science and the Future of Food</i> | Workshop: <i>Soil Science and the Future of Food</i> | Workshop: <i>Soil Science and the Future of Food</i> | Workshop: <i>Soil Science and the Future of Food</i> | Workshop: <i>Soil Science and the Future of Food</i> | Workshop: <i>Soil Science and the Future of Food</i> |
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Image



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Colorado State University
USA



Rattan Lal

The Ohio State University
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| One day | USD 200 | |

Piecing Together Our History


To celebrate our 90th IUSS anniversary, we are piecing together our past through photos related to IUSS and previous WCSS Congresses and putting them together like a puzzle to illustrate the history of IUSS. Please send your pictures so we can share these memories with colleagues.






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Details at: www.20wcscs.org

Farmers First for Conserving Soil and Water Resources in Northern Region

The Indian Association of Soil & Water Conservationists (IASWC) in collaboration with Central Soil and Water Conservation Research & Training Institute (CSWCRTI), Dehradun, India is organizing a 3 day conference “Farmers First for Conserving Soil and Water Resources in Northern Region” with the multi-sectoral approach during 8-10th March 2014 at Dehradun. The conference addresses the issues of natural resource conservation, integrated watershed management management of various ecosystems including forests, rivers, and other aquatic ecosystems, social concerns and institutional reforms etc. with reference to northern region of India.

In this context we invite you for the conference and also 2-3 scientists, technical persons or faculty members and farmers associated with your organisation may be arranged to participate in this important conference to exhibit and present relevant papers and views in the conference.

14

The conference circular is herewith attached for your kind reference and its wider publicity of the message.

For additional details regarding the conference,

please correspond directly with

Organizing Secretary. FFCSWR-20 14.

Central Soil & Water Conservation Research & Training Institute

218, Kaulagarh Road, Dehradun- 248 195 (Uttarakhand).

Ph:91-135-2758564, 2757213 +91-94111106447; 09412988783

Fax: 91-135-2754213. 2755386. Email:ffeswr2OI4@ gmail.com: secretary@iaswc.com

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Research Institute, Bishkek,
Kyrgyz Republic

Deadline: 13 December 2013 **Please send a cover letter, CV, and contact information for three references to tohr.recruitment@ucentralasia.org by 13 Dec 2013.**

The University of Central Asia is seeking a Senior Research Scientist to join its Mountain Societies Research Institute (MSRI), a University-wide research institution that seeks to generate, disseminate and promote the application of knowledge for the development of mountainous regions and their societies.

Main Duties and Responsibilities

- **Lead the design and implementation of interdisciplinary, applied research within the thematic areas outlined above. Specific responsibilities will include leading a project on ecosystem services monitoring and adaptive governance and a long-term socio-ecological systems research programme.
- **Define roles and responsibilities of, recruit, and lead research teams including Central Asian research fellows, associate researchers from partner institutions, and development implementation collaborators.
- **Support Academic Affairs in the development of courses and curriculum, especially the Earth and Environmental Sciences undergraduate program and Mountain Economies graduate programme.
- **Work closely with UCA's Development and Donor Relations Department to develop research proposals and manage external research grants.
- **Develop MSRI as a knowledge and resource hub for researchers, practitioners, and policy makers interested in mountain societies.
- **Support the Director with strategic administrative duties for the Institute.

Required Qualifications and Experience

- **PhD in a relevant discipline or interdisciplinary area.
- **At least five years of relevant experience.
- **Demonstrated independent research leadership and publications in refereed journals.
- **Highly motivated to develop research teams and mentor researchers from the region.
- **Excellent conceptual skills in identifying information and knowledge gaps and research opportunities.

**Ability to work in developing/emerging countries and effectively communicate with partners and stakeholders from different backgrounds, including scientific, managerial and other non-scientific backgrounds.

**Experience writing successful grant proposals and managing externally funded research.

**Flexibility and ability to work in a start-up environment of a new academic institution

**Excellent English-language writing skills

Desired Qualifications

**Knowledge of issues relevant to mountain societies

**Knowledge of the greater Central Asia region

**Working knowledge of Russian and/or a Central Asian language

Details at: www.ucentralasia.org/current_vacancies.asp#Senior Research Scientist, Mountain Societies Research Institute

2. Assistant Professor Freshwater Ecology



The Department of Biological Sciences at the University of Alabama invites applicants for a full-time (9-month) tenure-track faculty position at the Assistant Professor level. The successful applicant will establish an extramurally funded and internationally recognized research program in freshwater ecology. Preference will be given to applicants with a background in state-of-the-art, quantitative methods serving studies of freshwater ecosystems such as those related to, but not restricted to, food-webs, ecosystem energy and nutrient fluxes, metabolic theory, climate change, ecohydrology and macrosystems ecology. We define ecosystem studies broadly and encourage applications from individuals with a demonstrated record of integrating population- and community-level research with ecosystem perspectives.

The University of Alabama (UA) is near the geographic center of the Mobile River drainage, a true hot-spot for global freshwater biodiversity. Successful candidates will be encouraged to leverage this unique resource to support an innovative research program, and to forge collaborations with the new NOAA National Water Center, which will open on the UA campus in 2014, and the diverse faculty at UA and Dauphin Island Sea Lab with interests in freshwater ecology. Aquatic mesocosm facilities are available near the UA campus at the

Tanglewood Biological Station. Teaching responsibilities will include basic undergraduate courses in biology, as well as specialized undergraduate and graduate courses in the successful candidate's area of expertise.

Applicants must have a Ph.D., postdoctoral training, and demonstrated research productivity. Queries regarding additional details should be addressed to the chair of the search committee: Dr. Alexander D. Huryn at huryn@bama.ua.edu.

To apply, go to <https://facultyjobs.ua.edu>, complete the online application (Job # 0808674), and upload (1) an application letter with a list of three to five references (including contact information); (2) CV; (3) statement of research interests and goals; and (4) statement of teaching interests and philosophy. Consideration of applications will begin January 15, 2014, and will continue until the position is filled. Prior to hiring, the final candidate will be required to pass a pre-employment background investigation.

The anticipated start date is August 16, 2014.

Additional information about the Department of Biological Sciences and this available position can be found on our website at <http://bsc.ua.edu>

3. Securing the Integrity of the Food System



The Research Center / Cluster of Excellence “The Ocean in the Earth System” (MARUM) at the University of Bremen, Germany, has the overarching scientific goal to achieve a better understanding of key processes in the marine environment. The research themes are: Ocean and Climate, Geosphere-Biosphere Interactions and Sediment Dynamics.

MARUM is offering a PhD position in the area of isotope geochemistry in the framework of the MARUM project GB4: From element and energy fluxes to vent ecosystems.

The PhD project will combine radiogenic and stable isotopes to identify the source and pathways of hydrothermal vent fluids and to determine the energy and elemental flow. Specifically, boron and lithium isotopes in hydrothermal fluids, oceanic crust and precipitates will be analysed to identify the full range of fluid

composition, pathway and sources beneath hydrothermal vents and to reconstruct the associated energy and elemental flow from lithosphere to hydrosphere and biosphere. Parallel investigations of strontium isotopes offer the potential to reconstruct mixing processes between hydrothermal fluids and seawater, and to assess heat-flow migration and chemical mass balances. We are searching for an enthusiastic and dynamic young researcher with a strong interest in analytical chemistry. The PhD student will be part of the research groups “Isotope Geochemistry” and “Petrology of the Ocean Crust” at MARUM and the Faculty of Geosciences, University of Bremen.

Requirements:

//Completed MSc degree or equivalent in geosciences

//Background knowledge in geochemistry and basic knowledge in petrology and mineralogy

//Operational experience in multicollector mass spectrometry and clean laboratory techniques will be of advantage

//Applicants should have excellent English language skills and enjoy working in an international and interdisciplinary team.

Please address enquiries to Prof. Dr. Simone Kasemann (skasemann@marum.de).

The position is available under the condition of job release and is limited to a term of 3 years and funded by the German Science Foundation (DFG). Salary and benefits are commensurate with the federal German employee scale TV-L 13 (66.6%). Applications should include a CV, a list of publications, a statement describing research interests, the applicant’s research and technical background as they relate to the position, and contact information for three referees. More information on research and technology at the MARUM is available at www.marum.de.

As the University of Bremen intends to increase the proportion of female employees in science, women are particularly encouraged to apply. In case of equal personal aptitudes and qualification priority will be given to disabled persons. Applicants with a migratory background and international applications are highly welcome.

In case of equal personal aptitudes and qualification, priority will be given to disabled persons.

Deadline for the application is December 31th, 2013. Applications should preferably be directed electronically with the reference number A275/13 to Prof. Dr. Simone Kasemann (skasemann@marum.de)

MARUM

Prof. Dr. Simone Kasemann

University of Bremen

Postfach 330 440

D-28334 Bremen, Germany

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Global Soil Week Bulletin

A Summary Report of the Second Global Soil Week (GSW 2013) - "Losing Ground?"

Published by the International Institute for Sustainable Development (IISD)

ONLINE AT [HTTP://WWW.IISD.CA/SOIL/GSW2/](http://www.iisd.ca/soil/gsw2/)

VOLUME 206, NUMBER 2, SATURDAY, 2 NOVEMBER 2013



The second Global Soil Week (GSW 2013) convened in Berlin, Germany, from Sunday, 27 October, to Thursday, 31 October 2013, on the theme "Losing Ground?" Following an opening reception on 27 October, participants assembled in plenary discussions, interactive dialogue sessions and an action forum from 28-30 October. The discussions were organized around four thematic threads corresponding to key areas of response to global soil loss: transforming global material and nutrient cycles; upscaling sustainable land management (SLM) and soil engineering at the landscape level; integrating land and soils in the sustainable development goals (SDGs) debate; and responsible land governance.

During a wrap-up session on Wednesday afternoon, 30 October, participants highlighted some messages from the three days of discussion for possible inclusion in the final outcome document, "Agenda for Action." Noting that this is a live document, the organizers invited participants to continue to provide their inputs. The Agenda for Action can be downloaded from the Institute for Advanced Sustainability Studies Potsdam (IASS) website at: http://globalsoilweek.org/wp-content/uploads/2013/10/GSW_Agenda_for_Action_Draft_web.pdf.

On Thursday, participants held informal workshops to deepen the debate on key issues that had been identified during GSW 2013 and to plan follow-up activities and collaboration.

GSW 2013 brought together more than 450 scientists, policy makers and practitioners from 71 countries. The event was co-organized and funded by the IASS-Global Soil Forum, European Commission, Food and Agriculture Organization of the UN (FAO), UN Convention to Combat Desertification (UNCCD), UN Environment Programme, German Federal Ministry for Economic Cooperation and Development (BMZ), Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), and the German Federal Environment Agency (UBA).

This report covers the sessions that took place from 28-30 October. It first provides a brief history of the Global Soil Week and overview of related meetings and initiatives in the past year. It then summarizes discussions that took place during plenary sessions, followed by detailed summaries of 12 of the 22 interactive dialogue sessions held over the three days.

This summary report is available at:

<http://eusoils.jrc.ec.europa.eu/InternationalCooperation/GSP/Documents/2GSW.pdf>

WASWAC MEMBERSHIP APPLICATION/RENEWAL FORM (Issued 120501)

(For renewal, please fill in only your name, country, 2 e-mails, year(s) and the amount to pay. Sending the form by e-mail is preferred.)

(For applicants from all countries)

Name: (Ms./Mrs./Mr./Prof./Dr.) Gender: ☐F ☐M
Institution:
Postal address:
State/Province: Zip/Postal code: Country:
Phone: Fax:
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\$
Donation to the Moldenhauer Fund US\$
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).

- 1.** IM (Individual membership): US\$20 for 5 years for developing countries (In China, members pay 130 yuan RMB); US\$40 for 5 years for developed countries and persons working in international organizations worldwide.
- 2.** LM (Life membership): US\$80 for developing countries (In China, members pay 520 yuan RMB); US\$160 for developed countries and persons working in international organizations worldwide. Persons who have passed their 60th birthday pay only half of these LM rates.
- 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.

▲ How and where to submit this form and the money: You may send this form by e-mail (preferred), fax or post – and membership due – to:

Dr. Xiaoying Liu. WASWAC Treasurer, c/o IRTCES. No. 20 Chegongzhuang Road West, Beijing 100048, China. Tel: +86 10 68786413; Fax: +86 10 68411174; Email: liuxy@iwhr.com; wawacsecretariat@yahoo.com; waser_secretariat@yahoo.com.cn. Membership fee can be sent through **Check**, **Bank Draft**, **Bank Transfer** and **WESTERN UNION**.

For sending money by foreign wires through a bank, please give the following information to your bank:

Name of Receiver (A/C Holder's Name): Liu Xiaoying

Bank Name and Address: Bank of China Beijing Branch, No. 2 Chao Yang Men Nei Da Jie, Dongcheng District, Beijing, 100010, P R China

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NOTE: 1. Do not deduct the bank fee from the amount of money to send. **2.** For sending money by wire/bank transfer or check please add US\$7 per transaction to compensate for the charge at the receiving bank in Beijing. This additional charge does not apply for **WESTERN UNION** or any payment of US\$50 or more.

