

### WORLD ASSOCIATION OF SOIL AND WATER CONSERVATION

# HOT NEWS

Issue 12, 2014



### WASWAC HOT NEWS No. 12, December, 2014 Contents

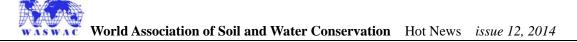
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Cover photo: Reservoir of Dujuan Lake, Guizhou Province, China. Photographer is Yang Zhenghong.

Editors: Ms. Mao Juan, Contributors include Prof. Li Rui and Dr. Du Pengfei.



IRTCES Building (Where the Secretariat of WASWAC is) The Secretariat of WASWAC No. 20 Chegongzhuang Road West, Beijing 100048, P. R. China Tel: +86-10-68786579 Fax: +86-10-68411174 Email: <u>waswac@foxmail.com</u> <u>waswac@163.com</u> For ISWCR paper submission: <u>iswcr@foxmail.com</u> WASWAC Website: <u>www.waswac.org</u>



### WASWAC President's New Year Message of 2015



Dear colleagues, friends and members of WASWAC,

A year runs very quickly. As the year 2014 draws to an end, we look back on this important year, with all your full supports, our association has made great progresses. The following is a brief overview of important events for WASWAC in the year 2014.

- 1. WASWAC organization establishment
- (1) Councilor certificate issue

The WASWAC Councilors for the term 2014-2016 started working since the beginning of this year. All thirty certificates for councilors were issued.





#### (2) five specialized committees building

To make our Council working more vigorous and efficiently, 5 specialized committees including Publications Committee, Academic Meetings Committee, Awards Committee, Finance Committee, and International Cooperation Committee were organized for this term of 2014-2016.

#### 2. WASWAC registration in China

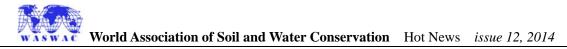
Under Chinese government support, the registration of association in China has made great progress. The proposal has passed the discussion in Ministry of Civil Affairs of China. According to the requests of administration, a series of documents have been prepared and submitted in this year. Hopefully it can be authorized finally soon.

#### 3. Publication

Three issues of International Soil and Water Conservation Research including 31 papers have been published, the last issue is being printed and will be ready in the beginning of 2015. Twelve issues Hot News (this issue inclusive) were offered to WASWAC members to provide information in association's news, academic meetings, jobs, book introductions, and some related activities, researches or reports.



Since this year, online download in WASWAC official website was come true. Fresh published paper in ISWCR, Hot News and Bulletin were available through log in our system using the username and password we offered in the 5<sup>th</sup> issue Hot News (Step by step procedure is also included in it).





Since this year, online download in WASWAC official website was come true. Fresh published paper in ISWCR, Hot News and Bulletin were available through log in our system using the username and password we offered in the 5<sup>th</sup> issue Hot News (Step by step procedure is also included in it).

In 2014, the editorial office of ISWCR has finished the negotiation with ELSEVIER – a world-leading provider of information in science. So far, the production and hosting agreement has been finished. Elsevier provides web-based, digital solutions for this journal since next year. Welcome to submit your paper to our journal, your achievement will be available on Elsevier website so it can be searched and downloaded by all people who are interested in it.



CONFIDENTIAL

#### PRODUCTION AND HOSTING AGREEMENT

AGREEMENT ("Agreement") made as of <u>NOV 30</u> 2014 by and between Elsevier B.V., with offices at Radarweg 29 1043 NX Amsterdam, the Netherlands (hereinafter the "Elsevier") and International Research and Training Center on Erosion and Sedimentation and China Water and Power Press with offices at IRTCES Building, 20 Chegongzhuang Road West, Haidian District, Beijing, 100048, China (hereinafter the "Owner").

#### BACKGROUND

WHEREAS, the Owner is the owner of the journal entitled International Soil and Water Conservation Research (the "Journal"); and

WHEREAS, the Owner desires to enter into this Agreement whereby Elsevier will be responsible for the production and hosting of the Journal; and

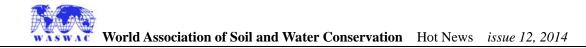
NOW, it is mutually agreed as follows:

#### 4. Conferences

(1) International Workshop on Construction of Clean Small Watersheds and Beautiful Countryside, sponsored by WASWAC, CSSWC (Chinese Society of Soil and Water Conservation), BSSWC (Beijing Society of Soil and Water Conservation), was held successfully on 25 September, 2014. Total 150 participants from Germany, the Netherlands, Australia and China attended this Workshop. Prof. Liu Zhen, the honorary president of WASWAC, Prof. Li Rui, the present president of WASWAC, and many member of WASWAC attended this workshop.



(2) To encourage young scientist to devote themselves in soil and water conservation research, our association provide Outstanding Youth Paper Award in next year. This award is presented to the outstanding research papers on soil and water conservation by the scientists of 40 years old or younger by the end of the award year. The award consists of a Certificate from the WASWAC and a \$1000 (USD) honorarium. The Award will be presented at the 'International Youth Forum on Soil and Water Conservation' (IYFSWC) to be held from October 16 -18, 2015 in Nanchang, China. So far, the conference website has been established, the first circular announcement has also been distributed. We encourage our member to participate this forum, where you will have chance to win the award, and also, have chance to be familiar with some famous researchers and scientists who have been invited to give speeches in this forum.



### INTERNATIONAL YOUTH FORUM ON SOIL AND WATER CONSERVATION 16-18,October,2015 Nanchang,China

Welcome to IYFSWC IYFSWC Updates About WASWAC About NIT About Nanchang City Contact Us

International Youth Forum on Soil and Water Conservation (IYFSWC)



(3) The Training Course on Soil & Water Conservation and Drland Farming for Developing Countries was held in 2-24 April of 2014 in Yangling, China. There are 19 trainees from developing countries. During 3 weeks training they have lectures and field trip on soil & water conservation and dryland farming. WASWAC President Li Rui gave a detailed presentation of Soil & Water Conservation.



#### 5. International Communication

(1) Dr. Christopher George, the executive director of IAHR, take the opportunity that establishment of IAHR secretariat office in China to visit the secretariat of WASWAC on Feb. 19, 2014 in the company of Prof. Peng Jing, the head for international cooperation department of IWHR. Dr.

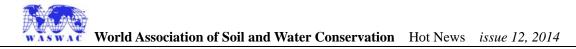


Christopher George expressed strong interest in many aspects such as WASWAC members' registration, routine management, conference holding. And hence wish to be collaborated with WASWAC in the near future through discussion with Prof. Ning Duihu, the secretary-general of our association.



(2) Headed by President Li Rui and Adviser Samran Sombatpanit, the WASWAC delegation attended the 17th Annual Meeting and Scientific Conference of Philippine Society of Soil Science and Technology on 7-9 May 2014 at Aklan State University, Aklan, the Philippines. The delegation consisted of12 people from China, Thailand and Philippines. After shared the research achievements with Philippine scientists WASWAC at the conference the delegation visited Philippine Bureau of Soil and Water Management (BSWM) and Philippine National senators dealing with laws on environment and conservation.





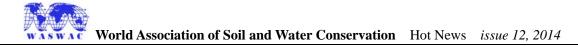
(3) Invited by Professor Alfredo Borges De-Campos, the Chair of conference, President Li Rui, as the representative of co-sponsor - WASWAC, arrived Brazil to attend the 9th International Symposium AgroEnviron2014 with topic of "Impacts of Agrosystems on the Environment: challenges and opportunities", which was held by Federal University of Sergipe.



(4) Prof. Coen J. Ritsema, the winner of the WASWAC Distinguished Researcher Award for the year 2013, has been Beijing and visited the secretariat of WASWAC in the company of Prof. Violette Geissen on 22 Sept. 2014. Prof. Ning Duihu, the secretary general of WASWAC, gave a welcome speech. Prof. president Li Rui issued WASWAC Distinguished Researcher Award medal to Prof. Coen.



(5) Prof. Ning Duihu, the secretary general of WASWAC, Prof. Liu Xiaoying, the treasure of WASWAC,



accepted the invitation from conference chairman, attended the 9th international soil science congress in Antalya, Turkey during 14 – 16, October. As one of main topics, both parties - WASWAC and the conference sponsors including Soil Science Society of Turkey and Federation of European Soil Science Society expressed further cooperation wish in international training and project research.



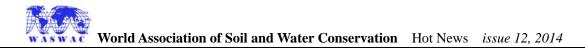
(6) Invited by Indonesia society of soil and water conservation, president Li Rui attended "International seminar of land reclamation technology for sustainable land use" and gave a keynote speech. After conference, Li Rui visited Jambi University and Indonesia society of soil and water conservation, where cooperation in conference co-holding and soil loss treatment were discussed.



#### 6. Other routine development

#### (1) Membership

There were 43 new members registration from several countries, such as Lesotho, Nigeria, Sri Lauka, Congo, Egypt, Benin etc. in the year 2014.





#### (2) Publicity

Our pamphlet of association and journal were put into all kinds of international conferences, seminar, workshops related to soil and water conservation by staff working for the secretariat or participants who are our members. This is beneficial to make WASWAC well know around global perspectives.



#### Looking forward to the year 2015,

- 1. There will be a very important thing to publish ISWCR on line by ELSEVIER. We hope that more excellent paper will be submitted to our journal. Detailed information will be appeared in Hot News to let you know how to and where to finish your submission. So dear members, please prepare your academic fruit soon, it is good to publish your achievement in ISWCR that will be able to be searched and downloaded by all people around world since 2015.
- 2. WASWAC registration in China hopefully can be finished completely within 2015. A series of procedures will be needed to complete. Any new progresses will be let our member know timely

through Hot News and website.

 IYFSWC will be held in October 16-18, 2015. We cordially hope that our members can be there then to attend this important conference, you might be the winner of \$1000 USD! Pay your attention in Hot News and website (<u>http://ivfswc.nit.edu.cn</u>) to know the progress timely.

Your continuing support for WASWAC will contribute our Association stronger than ever before. We believe that WASWAC will receive more fruits and play more important role in the world.

Finally, with the arrival of 2015, hope our all members all the joys of happiness throughout the prosperous New Year.

Best wishes for you for 2015,

L. R.

Prof. Li Rui President of WASWAC Institute of Soil and Water Conservation MWR-CAS 26 Xinong Rd., Yangling, Shaanxi, China lirui@ms.iswc.ac.cn

WASWAC Secretariat:

c/o International Research and Training Center on Erosion and Sedimentation (IRTCES), 20 Chegongzhuang Road West, Beijing 100048, P. R. China.









Soil Functions and Climate Change - do we underestimate the

consequences of new disequilibria in soil properties?

### September 23-26, 2015

Christian-Albrechts-University zu Kiel, Germany

#### **Topics:**

- Soil structure and pore rigidity effects as prerequisites for quantification of physicochemical processes
- Effects of limited pore rigidity and soil resilience on hydraulic, mechanical, thermal, and diffusion properties
- **4** Modelling approaches to quantify limited soil rigidity in structured soils at various scales
- Innovative approaches to predict climate change induced affected sinks and sources of e.g. atmospheric C, nutrient, water and its consequences to their accessibility and availability.

#### KEY DATES (Deadline):

Abstract submission 1st March 2015

Early Bird Registration 31st March 2015

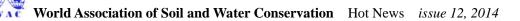
Notification of abstract acceptance 31st March 2015

Online Registration open 1st February 2015

#### Contact:

Institute for Plant Nutrition and Soil Science

Hermann- Rodewald- Str. 2





Mrs. Pia Lüttich

Phone: +49 431 880 - 2573

Fax: +49 431 880 - 2940

Download at:

http://www.soils.uni-kiel.de/de/sustain-2015/downloads/downloads-dateien/sustain-flyer



Venue: Centrum Dydaktyczno-Naukowe, Uniwersytet Przyrodniczy we Wrocławiu, Plac Grunwaldzki

24a, Wrocław, Poland

#### Topic:

- 1. Soil genesis and classification
- 2. Chemical and biological processes in the soil environment
- 3. Transformations of soil organic matter and their effects on the environment
- 4. Physical and physicochemical processes in soil.
- 5. Soil degradation, reclamation and soil protection
- 6. Rational use of soil resources

#### Deadline:

Announcement no 2	31.12.2014
• Payment of conference fee (first term)	31.12.2014
Abstract submission	01.03.2015
• Acceptance of abstract and forms of presentation	15.03.2015
Payment of registration fee (second term)	31.05.2015
Conference registration	31.05.2015

- Announcement no 3
- Delivery of manuscripts for publishing

Details at: http://www.org.up.wroc.pl/igosr/PTG29/index a.html



9th Symposium of the International Society for Digital Earth (ISDE) Halifax • Nova Scotia • Canada 6 - 10 October, 2015

#### Themes:

- 1: Digital Earth Theory and Technology
- 2: Earth Observation
- 3: Digital Earth Applications
- 4: Digital Earth and Citizen Well-Being
- 5: Digital Earth Education and Outreach

#### Deadline:

Call for Abstracts:December 5, 2014

Call for Proposals for Special Sessions and Workshops:December 5, 2014

Special Session / Workshop Proposal deadline:February 24, 2015

Notification of approval of proposed Special Sessions / Workshops:March 15, 2015

Abstract Submission deadline (including those in Special Sessions):April 17, 2015

Notification of Acceptance of Abstracts:May 31, 2015

Early Bird Registration deadline: June 15, 2015

Full Paper (8 pages max.) Deadline for submission to to Digital Earth 2015 Proceedings:October 11,

#### 2015

#### Details at: <u>http://digitalearth2015.ca/invitation/</u>



15.07.2015

31.08.2015



#### 1. PhD Studentship in reconstructing terrestrial soil carbon dynamics



Supervised by Dr Adam Hartland (U. Waikato), Dr Marcus Vandergoes (GNS Science), Dr Russell Drysdale (U. Melbourne)

Duration: 36 months

This project seeks to resolve a central debate around our understanding of the modern carbon cycle: namely, whether increases in dissolved organic carbon (DOC) loss from soils over recent decades have been caused by changes in atmospheric deposition chemistry, or climate change. The University of Waikato has an opening for a PhD candidate who will be tasked with reconstructing changes in DOC export through time by targeting novel geochemical proxies within high-resolution speleothem (cave carbonate) and lake sediment archives from New Zealand.

The successful candidate will use novel trace element and spectroscopic proxies established at the University of Waikato to reconstruct changes in DOC concentration and character in carbonate and lake sediment cores from across the New Zealand latitudinal temperature gradient. This will constrain the effect of variable thermal histories on the export of DOC on catchment scales. In addition, the candidate will also develop chronologies for these sedimentary archives based on both layer counting and radiometric methods.

This exciting project is at the forefront of speleothem and lacustrine palaeoclimate science; it will provide many analytical challenges and will involve some field work. An ideal candidate for this post holds a first class honours degree in geosciences or related fields, and has strong interests in biogeochemistry, carbon cycling and climate change.

The project is funded through a New Zealand Marsden Fund grant to Dr Hartland and Vandergoes. The successful applicant will be able to collaborate with colleagues at the University of Melbourne, and will publish their research results in internationally recognized peer reviewed journals and present the research results at relevant national and international scientific conferences.

This is a fully funded position. It will support tuition fees and pay a non-taxable bursary of \$25,000 per year. All analytical costs and travel costs are covered by the Marsden Fund grant, and the student will be required to travel to the North and South Island to participate in field work.

For informal enquiries about the positions and to apply, please e-mail, Dr Adam Hartland, <u>a.hartland@waikato.ac.nz</u>. Applications must include a CV, grade transcripts, and a cover letter stating research interests and motivations for applying to this project.

Closing date: 31 January 2015 to start as soon as the candidate is available

Details at: http://www.earthworks-jobs.com/geoscience/waikato14121.html

#### 2. Research Associate in Soil Carbon Ecology



#### Salary: £26,274 - £30,434

#### Closing Date: 31st January 2015

Applications are invited for a fully funded full-time post-doctoral position, tenable for two years, to investigate how plant-soil interactions regulate soil carbon sequestration in selected terrestrial ecosystems. The position would fit into a large range of research projects in the Plant and Soil Ecology Group at Lancaster University. Research will be field and lab-based involving the establishment of field and mesocosm experiments, with analyses soil processes that underpin soil carbon ecology and ecosystem greenhouse gas emissions (i.e. CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2O</sub>).

You will join a research team, led by Professor Nick Ostle, studying soil and ecosystem carbon ecology, with opportunities to work closely with research staff at the Centre for Ecology and Hydrology. The position is available to scientists with a PhD in ecology, soil or biological sciences and preference will be given to those with experience in field studies of plant-soil interactions, carbon and nutrient cycling.

The position is effective from 1 April 2015 and is available for two years.

Informal enquiries to Professor Nick Ostle (email: <u>n.ostle@lancaster.ac.uk</u>).

Further details of Professor Ostle's research can be found on:

www.lancaster.ac.uk/lec/about-us/people/nick-ostle





#### **Transport in the Atmosphere-Vegetation-Soil Continuum**

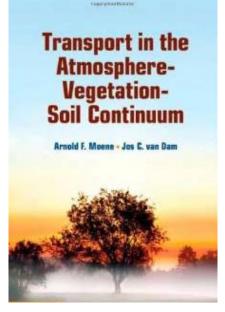
By F. Moene, Jos C. van Dam.

Publisher: Cambridge University Press (January 31, 2014)

Language: English

ISBN-10: 0521195683

ISBN-13: 978-0521195683



Traditionally, soil science, atmospheric science, hydrology, plant science and agriculture have been studied largely as separate subjects. These systems are clearly interlinked, however, and in recent years a great deal of interdisciplinary research has been undertaken to better understand the interactions. This textbook was developed from a course that the authors have been teaching for many years on atmosphere-vegetation-soil interactions at one of the leading international research institutes in environmental science and agriculture. The book describes the atmosphere-vegetation-soil continuum from the perspective of several interrelated disciplines, integrated into one textbook. The text is interspersed with many student exercises and problems, with solutions included. It will be ideal for intermediate to advanced students in meteorology, hydrology, soil science, environmental sciences and biology who are studying the atmosphere-vegetation-soil continuum, as well professionals interested in the observation as researchers and and modelling of atmosphere-vegetation-soil interactions.



### **World Soil Day**



December 5th is World Soil Day, and the Soil Science Society of America (SSSA) reminds us to protect our soil.

"Soil is one of the world's most neglected resources," says David Lindbo, North Carolina State University soil scientist and president of SSSA. "We must take care of our soil for this generation, and all generations to come." The tag line for the society is "Soils Sustain Life," which "illustrates that without soil, we don't have food, clothing, shelter, water—all the things that contribute to life," he says.

Nick Comerford, a University of Florida soil scientist and SSSA member, wrote a SSSA blog post (link is external) for World Soil Day explaining how soil cleans our water. "Soil is the largest filter on the planet," says Comerford. Soil is a physical filter, taking out particulates. It also is a chemical reactor. Negatively charged soil acts like a magnet, pulling out positively charged ions and other pollutants that travel through the soil. And, microbes that live in soil help to clean water further by providing miniature water treatment plants in the soil.

SSSA manages a public information website on <u>www.soils.org</u> called Discover Soils where visitors can find information about the relationship between soils and health, soils and culture, and urban gardening, among other topics.

Happy World Soil Day!

Source: https://enst.umd.edu/news/happy-world-soil-day

### Soil Science in Australia 2015 Internation Year of Soil

### **Special publication**





Soils and soil health are of such vital importance, that caring for the soil, learning and understanding more about soil, should be a national priority and a national passion.





My vision is for healthy, well managed soils, which are resilient to stressors such as climate change and able to support and sustain productive ecological and agricultural systems over the long term.

## WASWAG W

The IYS 2015 aims to increase awareness and understanding of the importance of soil for food security and essential ecosystem functions.

The specific objectives of the IYS 2015 are to:

• Raise full awareness among civil society and decision makers about the profound importance of soil for human life

• Educate the public about the crucial role soil plays in food security, climate change adaptation and mitigation, essential ecosystem services, poverty alleviation and sustainable development

• Support effective policies and actions for the sustainable management and protection of soil resources

- Promote investment in sustainable soil management activities to develop and maintain healthy soils for different land users and population groups;
- Strengthen initiatives in connection with the SDG process (Sustainable Development Goals) and Post-2015 agenda
- Advocate for rapid capacity enhancement for soil information collection and monitoring at all levels (global, regional and national).

For updated event information:

www.fao.org/globalsoilpartnership/iys-2015/events-calendar/en/

www.iuss.org/index.php?option=com\_content&view=article&id=483&Itemid=36

Free PDF Document Download at:

http://www.soilscienceaustralia.com.au/images/stories/magazine/2014soil\_science\_magazineweb.p df

#### 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



#### WASWAC MEMBERSHIP APPLICATION/RENEWAL FORM (Issued 120501)

(For applicants from all countries)

Name: (Ms./Mrs./Mr./Prof./Dr.)		
Fax:		
ensure uninterrupted contact): (1)		
(3)		
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\*Membership categories & rates from July 18, 2005, amended March 3, 2007 and March 4, 2010.

**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 60<sup>th</sup> 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: <u>waswac@foxmail.com</u>; <u>waswac@163.com</u>. 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

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

Message to write on the Bank Sheet: WASWAC Membership due for Ms./Mrs./Mr./Prof./Dr. ....., Country ......

**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.