



**WORLD ASSOCIATION OF SOIL AND WATER CONSERVATION**

# **HOT NEWS**

Issue 09, 2014



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## WASWAC HOT NEWS No. 9, September, 2014

### Contents

|                         |  |          |
|-------------------------|--|----------|
| WASWAC News             | International Youth Forum of Soil and Water Conservation (IYFSWC)  | 1        |
|                         | Prof. Coen Ritsema visits the secretariat of WASWAC  | 2        |
|                         | International Workshop on Construction of Clean Small Watersheds and Beautiful Countryside Was Held Successfully | 3-4      |
| Meetings                |  | 5-9      |
| Jobs                    |  | 10-11    |
| Book Introductions      |  | 12-16    |
| News and Report         | UN Climate Summit 2014   | 17       |
|                         | Smallholders benefit from conservation farming in Nicaragua  | 18-19    |
|                         | RC releases E-BOOK versions of the Soil Atlas of Africa  | 20-21    |
| Advertisements          |  | 16,17,19 |
| WASWAC Application Form |  | 22       |

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**Cover photo:** Terraces in slope farmlands of Huangyuan County, Qinghai Province, China. (Photo by Mr. Pan Zheng)

Editors: Ms. Mao Juan, Contributors include Dr. Sunarti, Dr Amir Kassam, Dr. Panos Panagos and Dr. Du Pengfei.

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IRTCES Building

(Where the Secretariat of WASWAC is)

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The Secretariat of WASWAC

No. 20 Chegongzhuang Road West, Beijing 100048, P. R. China

Tel: +86-10-68786579

Fax: +86-10-68411174

Email: [waswac@foxmail.com](mailto:waswac@foxmail.com)    [waswac@163.com](mailto:waswac@163.com)

For ISWCR paper submission: [iswcr@foxmail.com](mailto:iswcr@foxmail.com)

WASWAC Website: [www.waswac.org](http://www.waswac.org)

## International Youth Forum of Soil and Water Conservation (IYFSWC)

International Youth Forum on Soil and Water Conservation (IYFSWC)

# Youth - the Future of Soil and Water Conservation

October 16-18, 2015 Nanchang, China



World Association of Soil and Water Conservation Chinese Society of Soil and Water Conservation Water Resources Department of Jiangxi Province Jiangxi Association for Science and Technology Nanchang Institute of Technology



You are cordially invited to the International Youth Forum on Soil and Water Conservation (IYFSWC). The conference will bring researchers, practitioners and policy makers a world-wide platform to share their research and discuss creative solutions related to soil and water conservation. IYFSWC is focusing to see the "old" soil and water conservation problems in the vision of the youth.

For more information please visit:  
<http://iyfswc.nit.edu.cn/>

### Topics

- Soil Erosion Processes and Modeling
- Global Changes and Soil Conservation Practices
- Land Degradation and Food Security
- Watershed Management
- Sustainable Development for Soil and Water
- Soil and Water Conservation during Construction
- New Technologies and Methods for Monitoring and Assessment Soil Erosion
- Youth Engagement and the Education of Soil and Water Conservation

### Contact Information

Ms. Wang Yue , Ms. Peng Cong  
Tel: +86-791-88179373, +86-791-88126011  
E-mail: IYFSWCinf@nit.edu.cn

### OUTSTANDING YOUTH PAPER AWARD

The World Association of Soil and Water Conservation (WASWAC) will present WASWAC Outstanding Youth Paper Award at the conference.

**Ten** outstanding papers by authors under the age of 40 will be selected from the submitted conference papers. The primary author of each paper will be awarded **US\$1,000**.

The awarded paper will be published in WASWAC official journal-International Soil and Water Conservation Research, which is a peer-reviewed, quarterly published English journal.

### IMPORTANT DATES

Sep.1, 2014 Call for abstracts  
Dec. 31, 2014 Abstract Due  
Please submit your abstract to  
IYFSWCpaper@nit.edu.cn  
May. 31, 2015 Full Paper Due

More details please go to: <http://iyfswc.nit.edu.cn/>



## **Prof. Coen Ritsema visits the secretariat of WASWAC**

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.

During the second world conference and the second council meeting of WASWAC, which were held in Chiang Rai, Thailand in September of 2013, the chairman of Award committee, Dr Samran Sombatpan gave a report about awarding affairs. Based on the discussion and feedbacks from councilors and regional representatives, WASWAC awardees have been selected from numerous candidates. As one of the winners, Prof. Coen was not there. So the secretariat of WASWAC kept the medal for him until now.

Prof. Ning Duihu, the secretary general of WASWAC, gave a welcome speech. Prof. Li Rui, the president of WASWAC, issued this medal for Prof. Coen. Prof. Liu Xiaoying, the treasure of WASWAC, and Prof. Wang Fei also attended this medal presentation ceremony.



## International Workshop on Construction of Clean Small Watersheds and Beautiful Countryside Was Held Successfully

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), organized by BSSWC and BSWCC (Beijing Soil and Water Conservation Center) 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 and the director for soil and water conservation department, the Ministry of Water Resources of China, attended workshop opening ceremony.





Eleven academic reports were communicated such as “Construction of clean small watersheds and beautiful countryside in Beijing” from Prof. Yang Jinhui, “Global assessment of soil erosion and potentials for prevention and restoration” from Prof. Coen J. Ritsema, and “Some thinking on Sci-tech development of SWC in China” from Prof. Li Rui, “Ecological restoration of rivers and riparian zones” from Prof. Walter Binder, “Soil erosion modeling and its applications in catchment management” from Prof. Xihua Yang, etc.



On 26 September, a post conference tour was arranged to visit several clean small watersheds in Yanqing County and Huai Rou County of Beijing.



# MEETINGS

## Land Reclamation Technology for Sustainable Land Use

Seminar with topic of “Land Reclamation Technology for Sustainable Land Use” will be held at Jambi University Campus Jl. Jambi – Muaro Bulian KM. 15 Mandalo, Jambi, Indonesia on November, 6th – 7th 2014.

Anybody who is interested in it is welcomed to participate. Further information please find at:

<http://www.puslitek-rekla.unja.ac.id>



**Research Institute of  
Jambi University**

**International Seminar**  
Jambi, November 6 - 7<sup>th</sup>, 2014

**"Land Reclamation Technology for Sustainable Land Use"** IS-LRT4SLU

**Research Consortium of  
Land Reclamation Technology**



### ABSTRACT AND FULL PAPER

Abstract is typed in single space, Times new roman 12 point, 3 cm for all margins, and 250 word maximum. Each abstract has 5 (five) keywords maximum.

Full paper is typed in 1.5 spaces, times new roman 12 point, 3 cm for all margin. Content includes Introduction, material and method, result and discussion, conclusion, suggestion/recommendation, acknowledgement, and references

See: <http://www.puslitrek-rekja.unja.ac.id>

### IMPORTANT DATE

Abstract submission : Sept, 10<sup>th</sup> – Oct, 20<sup>th</sup>, 2014  
 Notification : Oct, 30<sup>th</sup>, 2014  
 Full Paper submission : Oct, 30<sup>th</sup> – Nov 4<sup>th</sup>, 2014

### PARTICIPANT FEE

| Participant           | Overseas (US\$) | Domestic (IDR) |
|-----------------------|-----------------|----------------|
| General               | 250             | 1.500.000      |
| Lecturer/Researcher   | 200             | 750.000        |
| Postgraduate student  | 100             | 500.000        |
| Undergraduate student | 50              | 100.000        |

All participants will be provided seminar kit, certificate, lunch and snack during the seminar, transportation from and to Sultan Thaha Airport, Jambi).

Payment could be done via  
 BCA account No: 7870234516, Mrs. Sri Novianti.  
 The copy of payment slip is sent or email to the committee (see: registration form), or/and show at the registration desk.

### Accommodation Information



| Name of Hotel           | Distance (km) | Contact          |
|-------------------------|---------------|------------------|
| Golden Harvest Hotel    | 2,2           | +62-0741-581758  |
| Hotel Mutiara           | 2,2           | +62-0741 580221  |
| Grand Hotel             | 5,2           | +62-0741-668899  |
| Hotel Nusa Wijaya       | 5,6           | +62-0741-60154   |
| Hotel Ratu              | 9,7           | +62-0741-667788  |
| Shang Ratu Hotel        | 9,7           | +62-0741-667788  |
| Hotel Aston             | 9,2           | +62-0741-33777   |
| Hotel Matahari I dan II | 8,9           | +62-0741-581758  |
| Hotel Ceria             | 9,3           | +62-0741-7555090 |
| Grand Abadi Hotel       | 10,4          | +62-0741-25600   |
| Abadi Suite and Tower   | 10,4          | +62-0741-7555800 |
| Novita Hotel            | 10,4          | +62-0741 27208   |



### Registration Form

#### International Seminar

#### "Land Reclamation for Sustainable Land-Use"

Jambi, Indonesia November 6 - 7<sup>th</sup>, 2014

---

Full Name : .....

Address : .....

Institution : .....

Mobile phone : .....

Email : .....

Would like to register on the International Seminar "Land Reclamation Technology for Sustainable Land-Use" as:

☐ Oral Presentation

☐ Poster Presentation

☐ Participant

TITLE: .....

....., ..... 2014

Applicant

Name: .....

Signature: .....

Completed registration form sent to the IS-LRT4SLU committee via email:  
[islr4slu-lemitunja@gmail.com](mailto:islr4slu-lemitunja@gmail.com)  
[puslitrekrekja@gmail.com](mailto:puslitrekrekja@gmail.com)  
 or by fax to number +62-0741-582965

Registration can be done online through the website:  
<http://www.puslitrek-rekja.unja.ac.id>  
 Contact Person: Dr. Sunarti (+62-08127443495)  
 Dr. Afidal (+62-08136308073)

## THE OBJECTIVES

1. To socialize and share the information of research and knowledge regarding of the land reclamation.
2. To collect and prepare the strategy and the technology of land reclamation for the use of sustainable land.
3. To strengthen the research institutes that concern with the land reclamation.
4. To enhance the capacity of human resources on the land reclamation.

### THEME AND SUB-THEMES

**"THE LAND RECLAMATION TECHNOLOGY FOR SUSTAINABLE  
LAND USE"**

1. The conservation technique of land and water for reclamation
2. The role of biotechnology and biodiversity on land reclamation
3. Green Mining in frame of climate change adaptation and mitigation
4. The social and institution aspect of land reclamation
5. The environmental economic value of land reclamation



### TIME AND VENUE

Seminar will be held at Jambi University Campus  
Jl. Jambi – Muaro Bulian KM. 15 Mandalo, Jambi,  
Indonesia on November, 6<sup>th</sup> – 7<sup>th</sup> 2014.

## PARTICIPANTS

Participants are lecturer, researcher, student, policy maker, and other stakeholder concerning with the land resource sustainability. Hopefully, participants will come from some regions of Indonesia and some other countries.

## IRLA2014 International Symposium



### Location:

Patras, Greece

### Date:

November 26-28, 2014

### Basic objective:

The main questions of IRLA2014 are how we can keep agricultural land productive, in a sustainable for the landscape way and how urban and leisure landscapes can maintain their character and positive effects on human population, while high quality water consumption for irrigation is significantly reduced?

### Key note speakers:

Key note speakers including Dr. Gao Zhanyi , Prof. Juan Manuel Palerm Salazar, Prof. Rainer Horn, Dr. Bas Perdoli, Dr. Richard L. Snyder, Mr. Olivier Filippi, Dr. Bernhard Leinauer and Dr. Bochtis Dionysios.





Details at: <http://irla2014.irrigation-management.eu/>



## **International Conference on “Land Quality and Landscape Processes”**



including two workshops on the 3rd of June 2015

### **I. Workshop**

Symposium of the Sino-EU Panel on Land and Soil on

**“Resource use efficiency in agriculture in Europe and China with special focus on land quality”**

### **II. Workshop**

Meeting of the Soil and Land NEXUS of the Danube Strategy of the European Union

**“Soil information in the Danube basin”**

#### **Topics:**

- I. Land quality
- II. Land cover dynamics
- III. Land and soil in the hydrological cycle
- IV. Landscape planning and land allocation
- V. Towards a net zero land degradation word

VI. Sustainable intensification

VII. Data management and land information systems

VIII. Economic land evaluation

IX. Global issues, local processes and solutions

**IMPORTANT DATES:**

15 September 2014 – Call for papers opens, registration opens

09 January 2015 – Deadline for full paper submission/registration

03 April 2015 – Editorial decision on full papers, notification on the first round of reviews

15 April 2015 – Deadline for registration/submission for all presenters

30 April 2015 – Notification of acceptance for oral/poster presentation

30 April 2015 – Announcement of conference program

15 May 2015 – Final date for registration and payment

29 May 2015 – Publication date of special issue “Arable Land Quality Change” in TSWJ

2-4 Jun 2015 – LQ2015 Conference and Thematic Workshops

Details at: <http://lq2015.georgikon.hu/>

2015  
International  
Year of Soils



Joint Research Centre



European Environment Agency



Chinese Academy of Sciences  
Institute of Soil Science



International Union  
of Soil Sciences



## The 2nd World Congress on the use of Biostimulants in Agriculture



**Dates:**

16-19 November, 2015

**Venue:**

Florence Convention Center, Italy

### CALL FOR PAPERS

We are pleased to invite participants from the private and public research, and from the commercial sector to send us by May 10th, 2015 latest their proposal for lectures and posters.

Abstract should contribute to our understanding of the role and use of biostimulants in agriculture, including: Biostimulants and plant development, nutrient uptake, yield, crop quality and crop tolerance to environmental stresses. Research that focuses on the molecular or physiological mode of action of biostimulants and research that provides insight into plant signalling pathways and physiological processes relevant to biostimulants is particularly welcome. Papers covering legislation and registration procedures will also be considered.

In order to be considered by the conference committee, the proposals will have to meet specifications (length, template, etc.) as described in the Abstracts submission section at this website that will open on October 15, 2014.

Abstracts should be submitted online using the drop box provided at the same web link.

### KEY DATES:

October 2014: Call for papers begins

April 1, 2015: Early registration begins

May 10, 2015: End of abstract submissions

June 15, 2015: Notifications on poster submissions

July 30, 2015: Notification on oral presentations submissions

July 30, 2015: Deadline for early registration

August 1, 2015: Regular registration begins

November 16, 2015: Congress begins

### AWARDS:

The organizers and the Scientific Committee will award a prize for the Top 2 Best Student Posters.

The prize will be a reimbursement of the Congress fee as well as a sum of €500 Euros for each of the winners.

Details at: <http://www.biostimulants2015.com/index.html>



# **JOBS**

## **1. Postdoctoral Position in Soil Moisture Remote Sensing**



The Columbia Water Center and Department of Earth and Environmental Engineering at Columbia University are seeking a post-doctoral researcher in soil moisture remote sensing.

Active and passive microwave sensors will be used in conjunction with statistical retrieval of soil moisture (neural network) in preparation for the upcoming Soil Moisture Active Passive mission.

The project will be co-advised by PIs Pierre Gentine (Columbia), Catherine Prigent (Columbia/CNRS), Filipe Aires (Columbia/Estellus) and Rolf Reichle (NASA-GSFC). The position is available immediately.

Terms of appointment are for one (1) year, renewable for up to three years, subject to approval.

Search will remain open for at least 30 days after the ad appears and will continue until the positions are filled.

Columbia University benefits afforded with this Officer of Research position. Columbia University is an Equal Opportunity/Affirmative Action employer. Candidates must have a Ph.D. in hydrology, atmospheric sciences or in a related field and an interest in working with observational data. Prior experience with remote sensing and statical tools (neural network, bayesian techniques...) is a plus. Candidates should have good oral and written communication skills. A track record in publishing journal papers and conference presentations is preferred.

Please send a CV and publication record along with a short research statement to Pierre Gentine [pg2328@columbia.edu](mailto:pg2328@columbia.edu)

Details at: <http://www.earthworks-jobs.com/water/columbia14101.html>

## **2. Post-doc positions available at the University of the Free State**



### Join one of the following projects:

- ✚ Mineral-scale isotopic disequilibrium in rocks of the Bushveld complex.(Dept of Geology)
- ✚ Reassessment of platinum-group element mineralization in the Barberton greenstone belt.(Dept of Geology)
- ✚ Sulphur isotopic studies of soils and water in mining areas, with specific emphasis on acid mine draining formation and remediation.(Depts of Soil, Crop and Climate Sciences and Geology, plus Inst for Groundwater Studies)

### Eligibility

- Both South Africans and foreign nationals are eligible.
- Ph.D. must have been obtained in the past 5 years.
- Positions will be allocated on a competitive basis.

### Period

Initial period of 1 year, with funding for a further year period being dependent on the submission of a report at the end of year 1.

### Residency

- ✧ Successful candidates must be willing to relocate to Bloemfontein, so as to spend 80% of the post-doc period at the University of the Free State.
- ✧ Successful candidates may not hold any other salaried position during the course of the post-doc period.

### Salary

R200 000, tax-free, per year, with R30 000 running expenses.

### Requirements for application

- ✓ Motivation letter.
- ✓ Full C.V., with full transcript of academic record and copy of Doctoral certificate
- ✓ 1-page proposal of possible research within the project framework
- ✓ Copy of ID document (South Africans) or passport (foreign nationals)

### Deadline

7 November 2014

For more information contact Ms M Jampies at [jampiesmg@ufs.ac.za](mailto:jampiesmg@ufs.ac.za)

# Book Introductions

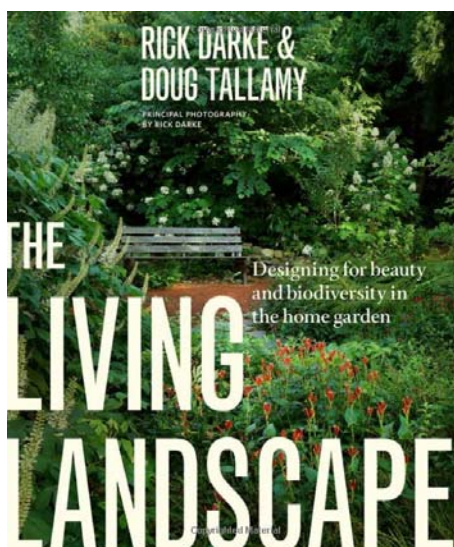
## THE LIVING LANDSCAPE

By **Rick Darke**

Publisher: Timber Press; First Edition edition (July 1, 2014)

Language: English

ISBN-10: 1604694084 ISBN-13: 978-1604694086



A home garden is often seen as separate from the natural world surrounding it. In truth, it is actually just one part of a larger landscape that is made up of many living layers. And the replacement of the rich layers of native flora with turf grass greatly diminishes a garden's biological diversity and ecological function.

The Living Landscape seeks to reverse this trend by showing gardeners how to create a landscape that is full of life. Written by Rick Darke and Douglas W. Tallamy, two of the most important voices in sustainability and horticulture, it is the definitive guide to designing a beautiful, biodiverse home garden. The authors first explain the layers of the landscape and what role the plants within them plays in the larger environment, from providing berries for birds, food for bugs, or a place for bees to pollinate. The authors then put this information into context and offer design strategies to implement in a home garden. Helpful charts suggest plants, including natives and nonnatives, for each region.

Douglas W. Tallamy's award-winning Bringing Nature Home revealed the pressing need for a biodiverse home landscape. In a gorgeously illustrated, inspirational, and practical way, The Living Landscape supports the important message by showing gardeners how to make it happen.



## Environment

By **Peter H. Raven, David M. Hassenzahl, Linda R. Berg**

Publisher: Wiley; 8 edition (December 17, 2012)

Paperback: 592 pages

Language: English

ISBN-13: 978-0470945704 ISBN-10: 0470945702



The 8th Edition of Environment builds on the previous comprehensive, systems-based environmental science issue with more in-depth information on systems approach, which emphasizes the interconnected nature of environmental science throughout the text. The book is even more reader-friendly integrated learning system designed to help move from general concepts to specific applications and continues to focus on currency. It presents the basic facts, various perspectives on issues, and framework to help readers reach their own informed decisions in a changing marketplace.

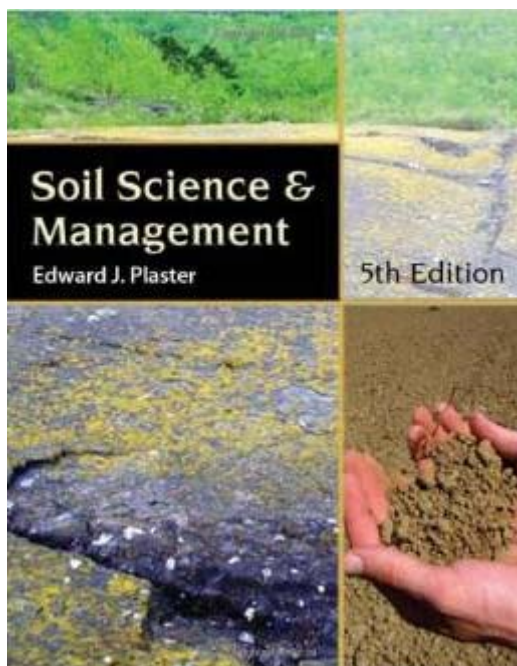
## Soil Science and Management

by **Edward Plaster**

Publisher: Cengage Learning; 5 edition (May 22, 2008)

Language: English

ISBN-10: 1418038652 ISBN-13: 978-1418038656



Soil Science and Management, fifth edition, emphasizes the human interaction with and effect on soils, rather than treating the soil as an independent element. Non-technical and easy-to-understand, Soil Science and Management, fifth edition teaches the essentials of soils from the perspective of farmers, horticulturalists, environmentalists and other who are concerned about how soils work and how they are used more effectively. An emphasis on management and the sustainable use of soil and water resources makes it especially relevant to these audiences. The inclusion of nutrient management, best practices and relevant legal issues and government programs make this text a practical application for students. The images have been updated and are now in full color, reinforcing the content contained in the text.

### **The Wetlands**

By **William J. Mitsch, James G. Gosselink**

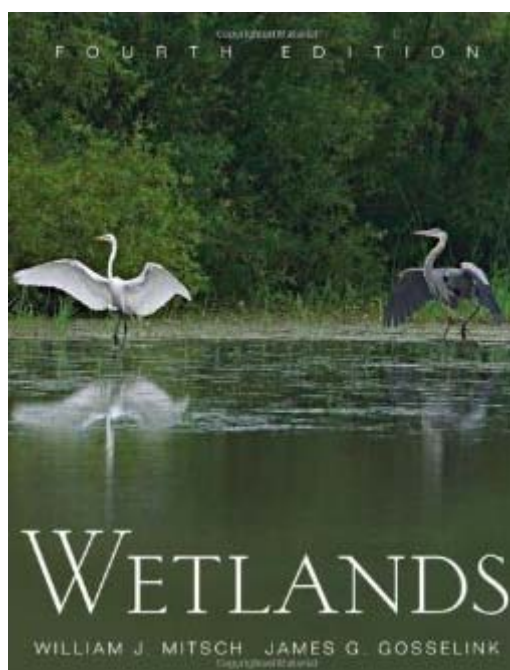
Hardcover: 600 pages

Publisher: Wiley; 4 edition (August 24, 2007)

Language: English

ISBN-10: 0471699675

ISBN-13: 978-0471699675



For more than two decades, William Mitsch and James Gosselink's *Wetlands* has been the premier reference on wetlands for ecologists, land use planners, and water resource managers worldwide—a comprehensive compendium of the state of knowledge in wetland science, management, and restoration.

Now Mitsch and Gosselink bring their classic book up to date with substantial new information and a streamlined text supplemented with a support web site. This new Fourth Edition maintains the authoritative quality of its predecessors while offering such revisions as:

- ✧ Refocused coverage on the three main parts of the book: 1. An introduction to the extent, definitions, and general features of wetlands of the world; 2. Wetland science; and 3. Wetland management.
- ✧ New chapter on climate change and wetlands that introduces the student to the roles that wetlands have in climate change and impact that climate change has on wetlands.
- ✧ Increased international coverage, including wetlands of Mexico and Central America, the Congolian Swamp and Sine Saloum Delta of Africa, the Western Siberian Lowlands, the Mesopotamian Marshland restoration in Iraq, and the wetland parks of Asia such as Xixi National Wetland Park in eastern China and Gandau Nature Park in Taipei, Taiwan of China. This expanded coverage is illustrated with over 50 wetland photographs from around the world.
- ✧ Several hundred new references for further reading, up-to-date data, and the latest research



findings.

- ✧ Over 35 new info boxes and sidebars provide essential background information to concepts being presented and case studies of wetland restoration and treatment in practice.

[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

Complete 3-D velocity profiling, bathymetric measurement and discharge calculation as you transect the channel



**M9**  
**S5**

FREE Technical notes, web-based training and product information at [www.sontek.com](http://www.sontek.com).  
Questions? E-mail: [inquiry@sontek.com](mailto:inquiry@sontek.com) or call +1.858.546.8327  
See the RiverSurveyorS5 in action! [youtube.com/SonTekYSI](http://youtube.com/SonTekYSI)

**SonTek**  
YSI incorporated

Sound Principles. Good Advice.

## UN Climate Summit 2014



Climate change is not a far-off problem. It is happening now and is having very real consequences on people's lives. Climate change is disrupting national economies, costing us dearly today and even more tomorrow. But there is a growing recognition that affordable, scalable solutions are available now that will enable us all to leapfrog to cleaner, more resilient economies.

There is a sense that change is in the air. UN Secretary-General Ban Ki-moon has invited world leaders, from government, finance, business, and civil society to Climate Summit 2014 this 23 September to galvanize and catalyze climate action. He has asked these leaders to bring bold announcements and actions to the Summit that will reduce emissions, strengthen climate resilience, and mobilize political will for a meaningful legal agreement in 2015. Climate Summit 2014 provides a unique opportunity for leaders to champion an ambitious vision, anchored in action that will enable a meaningful global agreement in 2015.

Copy from: <http://www.un.org/climatechange/summit/>



## Smallholders benefit from conservation farming in Nicaragua

In the municipality of Jalapa, Nueva Segovia, flat land in this generally mountainous area, and high agricultural potential has led to the extensive use of mechanized farming, particularly since the introduction of tobacco cultivation. Many years of utilizing traditional mechanization has led to soil compaction and erosion, which can deplete the soil of vital nutrients and reduce yields. To promote improvements in agricultural production, P4P and partners are supporting small-scale farmers with a variety of sustainable techniques and technologies.



*The implementation of minimal tillage farming techniques in Jalapa is observed by environmental specialist Morena Padilla, from the Department of Foreign Affairs, Trade and Development (DFATD) of Canada (second from right, in blue). Copyright: WFP/Sabrina Quezada*

### New sustainable farming techniques

Smallholder farmers in Jalapa are now utilizing minimal tillage systems, which allow them to cultivate land with minimal disturbance to the soil, reducing nutrient loss. Minimal tillage systems are comprised of seeders, which are either hand-held, or trailers pulled by tractors. Minimal tillage also benefits smallholders by decreasing the time and labour required for planting and soil preparation, and can reduce costs by over 30 percent. Plus, fewer seeds and fertilizer are needed, with less lost in application. The equipment also improves the spacing between crops, which can lead to higher yields. Technical assistance has been provided by the government's Institute of Agricultural Technology (INTA). P4P shares the cost of the equipment with the cooperatives.

The Cooperativa de Servicios Múltiples Campesinos Activos de Jalapa (CCAJ) and the Asociación de Campesinos para el Desarrollo Integral Sostenible (ACADIS) have been supported to create production plans to best provide planting and fertilization services to member organizations. Improved technologies have been



further promoted through exchanges, field visits, internships and small trials, benefitting cooperative leaders and key P4P partners such as INTA. While this new technology is already yielding results in Jalapa, scaling these practices to other farmers is challenging, with many smallholders still utilizing traditional techniques. Lessons learned confirm that scaling up will require additional technical support and awareness raised about the benefits of high-performing, environmentally-friendly technologies and techniques.

### Conserving soil, improving production

P4P-supported cooperatives are also learning to utilize environmentally-friendly organic amendments, as well as agricultural techniques to promote the conservation of soil and water. For example, the Cooperativa de Servicios Múltiples Santiago is now cultivating slopes along the contour, where natural barriers such as shrubs and trees protect the soil and prevent erosion of nutrients. "If we do not implement techniques to conserve the soil it will erode, and there will then be a need to use more fertilizer. This is an unnecessary costly expense," says the cooperative's technician Elmer Sarantes.

In collaboration with the Agricultural Technology Integration System Network (RED-SICTA), P4P is working to introduce low-cost hermetic "cocoon" storage systems. These airtight bags reduce crop losses, in part by preventing infestation by weevils and other pests without the use of toxic insecticides. While the introduction of new storage systems at cooperative level are making great strides in improving crop quality, smallholders in Nicaragua require additional support to access storage facilities on a larger scale.

Copy from: <http://www.wfp.org/purchase-progress/news/blog/smallholders-benefit-conservation-farming-nicaragua>

## ICT International Standing Wave Technology

### Soil Moisture Measurement





MP306
MP406

*MPkit*

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



**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](http://www.ictinternational.com)

Ph: +61 2 6772 6770    [sales@ictinternational.com.au](mailto:sales@ictinternational.com.au)

## **RC releases E-BOOK versions of the Soil Atlas of Africa**

As an alternative to the printed and pdf versions of the Soil Atlas of Africa, the JRC's Soil Resource Assessment Project (IES Land Resource Management Unit) is pleased to announce that the publication is now available in e-Book formats for both ePUB apps and Kindle devices or apps.

The e-Books format (i.e. Electronic or Digital Books) has brought about a technological revolution in the world of publishing by allowing users to 'read' documents as books on a wide range of dedicated hardware devices (e.g. Kindle) and programmes/applications (e.g. iBooks, Google Books, Kindle apps, Kobo, etc.). This allows readers to take hundreds of books or very large books with them on small computing devices such as dedicated eReaders, tablets or Smart Phones running dedicated apps. For example, our soil Atlas of Africa is in laid out in A3 format, contains 176 pages and weighs over 2.5 kg □ so it is quite an imposing publication! By using the e-Book version, it will fit in your pocket and you can take it with you wherever you go! In addition, e-Book files are much smaller than conventional print-quality pdf files, which makes them quicker and much easier to download, which is especially useful where the Internet connection may be poor or is accessed via cell phone networks.

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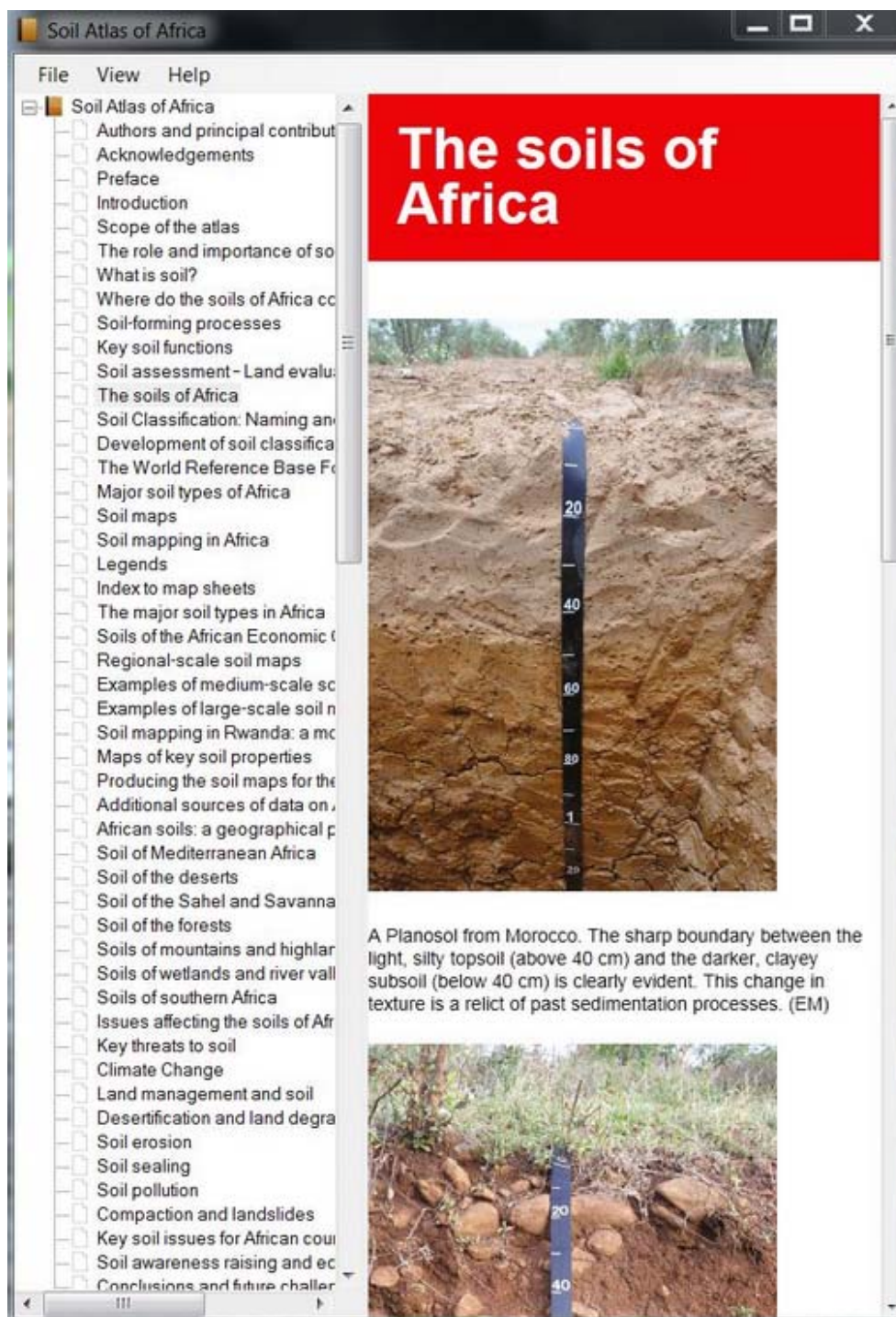
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**(For applicants from all countries)**

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Postal address: .....  
State/Province:..... Zip/Postal code:..... Country:.....  
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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)  
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Donation to the Moldenhauer Fund US\$ .....  
Total US\$ .....

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

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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.
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**▲ 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: [waswac@foxmail.com](mailto:waswac@foxmail.com); [waswac@163.com](mailto:waswac@163.com). Membership fee can be sent through **Check, Bank Draft, Bank Transfer** and **WESTERN UNION**.

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**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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