

## WORLD ASSOCIATION OF SOIL AND WATER CONSERVATION

# HOT NEWS

Issue 05, 2017



## WASWAC HOT NEWS No. 05, May, 2017

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Editors: Dr. Du Pengfei, Contributors include Dr. Amir Kassam and Dr Paige Chyu.



IRTCES Building (Where the Secretariat of WASWAC is located)

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WASWAC Website: <u>www.waswac.org</u>



The Second International Youth Forum on Soil and Water Conservation (2<sup>nd</sup> IYFSWC)

The Second International Youth Forum on Soil and Water Conservation (2<sup>nd</sup> IYFSWC) Moscow, Russia, 27-31, August, 2018

The second international Youth Forum on Soil and Water Conservation (2nd IYFSWC) is aimed to be held at Lomonosov Moscow state University in the summer of 2018.

The Organizers are Lomonosov Moscow State University and World Association of Soil and Water Conservation (WASWAC), Co-organizers include International Commission on Continental Erosion (ICCE) of International Association of Hydrological Sciences (IAHS), World Large Rivers Initiative and Interuniversity Council on Fluvial and Soil Erosion Research.



#### 2nd IYFSWC will address:

- 4 Challenges/actions of soil and water management in the changing world
- **4** Mechanism/processes and modelling of soil degradation
- **4** Innovation of technology of soil and water conservation

- **4** Ecological restoration and regional sustainable development
- ↓ How to play the roles of youth in soil and water conservation

#### Conference program will include:

- ♦ Plenary lectures by keynote speakers internationally recognized scientists
- ♦ Oral and poster thematic sessions
- ♦ Field excursion to the World largest hydro-technical projects water transfer from Volga River to Moscow city
- ♦ Cultural program in Moscow
- ♦ Post-conference tours to the cities of Saint-Petersburg and Kazan
- Extra-program special thematic part-time courses for young scientists . The participants of the workshops will get official certificate of Moscow State University



#### **Outstanding Youth Paper Award:**

The World Association of Soil and Water Conservation (WASWAC) will evaluated 10 papers as Outstanding Youth Paper Award from the presentations submitted by young people who is not older than 40 years by the end of 2018. Each awardee will win \$1000 (USD) prize and may get some reduction of expenses during the Forum. The awarded paper will be published in the journal International Soil and Water



Conservation Research (ISWCR), which is hosted by Elsevier.

**Registration fees:** 

Including e-proceedings, coffee, lunch, welcome reception and hotel-venue transportation.

General participants: 250 (early bird) – 300 (regular ) in Euro,

Student: 150 (early bird) – 200 (regular ) in Euro

Key dates of the Forum:

Registration opens	December 2017		
Abstract submission deadline	15 March 2018		
Registration & fee payment			
deadline (early bird)	01 May 2018		
Notice of abstract acceptance	15 April 2018		
The official website ( <u>http://www.eng.geogr.msu.ru/IYFS</u>			

The official website (<u>http://www.eng.geogr.msu.ru/IYFSWC</u>) is being constructed, all information will be available while it is ready. Further announcement will also be able to find at our association's website (<u>www.waswac.org</u>).

Welcome to be Moscow to attend The 2<sup>nd</sup> IYFSWC in August, 2018



# Upgraded WASWAC website is established

The WASWAC website has been upgraded successfully. Our official website was damage seriously attacked by the hacker(s) in the beginning of this year. All information released after 2015 have been all lost. So we had to re-establish it completely. This edition was introduced much safer technologies to protect our data. We are sorry to any inconvenience cansed during the process of website establishment. We are collecting the related information on our association, and will upload them to the new website soon.

Click <u>www.waswac.org</u> to have a look.

There is no information!



#### Publications

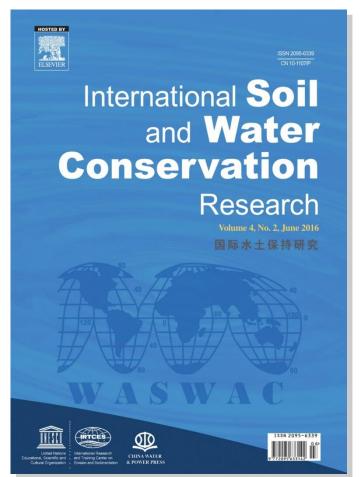


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·WASWAC Hot News 2006-3, 88pp. ·WASWAC Hot News 2006-2, 67pp. WASWAC Hot News 2006-1. 54pp.

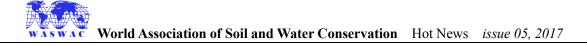
# **ISWCR Performance Report**

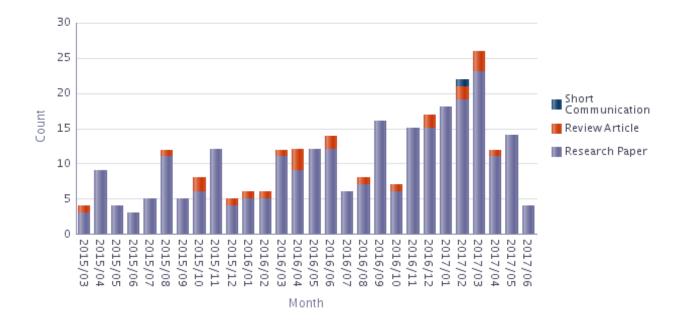
After four years development, our official journal – International Soil and Water Conservation Research (ISWCR) has made great progress under the hard working of all members from the editorial board and the support from all our members who have submitted papers.



The first issue was released in June, 2013. In the following times, ISWCR was successfully became one of the journals in CSCD core databases. After adoption the EVISE system, which is a production online publishing system provided by Elsevier, some new designs including cover, typesetting, columns have been used. In the end of 2016, ISWCR was indexed by SCOPUS.

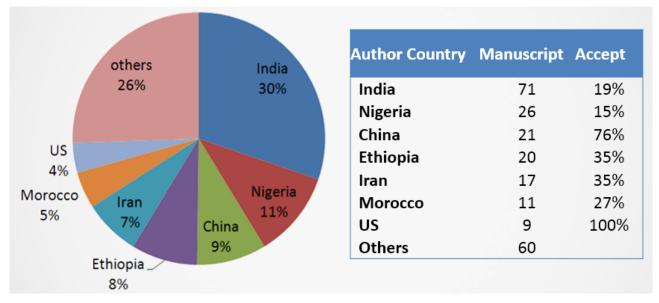
There is a increasing trend in submissions in the past two years. Generally, about 10 papers were submitted to ISWCR each month, it can be seen clearly in the following figure:





The types of submitted papers includes short communication, review article, and research paper, in which, research paper were dominant.

According to the nationality of authors, the main contribution counties include India, Nigeria, China, Ehiopia, Iran, USA, and Morocco. The following figures show clearly the proportions.



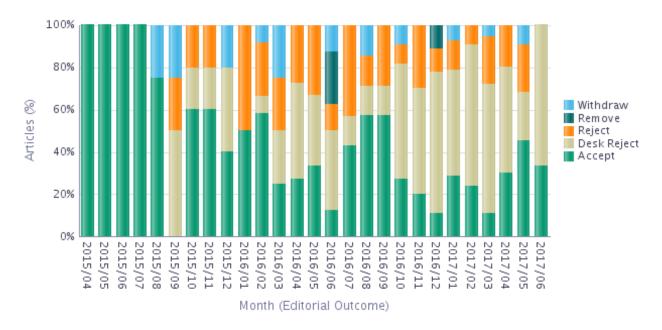
For the others: Iraq Tunisia 3.8% (4 papers each) Indonesia, Italy, and Pakistan 1.2% (3 papers each) Australia, Canada, Egypt, Kenya, Malaysia, the Netherlands, Philippines, Switzerland, Uganda, and UK 0.8% (2 papers each) Algeria, Belgium, Brazil, Cameroon, France, Ghana, Japan Korea, Lesotho, Oman, Saudi Arabia,



Serbia, South Africa Tanzania, Thailand, and Turkey <0.5% (1 papers each). Our editorial team were performed excellently. The following table shows the editorial speeds in days per article type:

Article Type	Manuscript	Submit to first decision	Submit to final decision	Author resubmission time	Author revision time	Average revisions
Research Paper	76	64.9	144.3	2.2	39.8	1.7
Review Article	9	48.1	107.6	0.1	29.7	1.6
Grand Total	85	63.2	140.5	2.0	38.7	1.7

The following figure shows the percentages of each types of decision.



Generally, our journal has 235 submission during the period of April, 2015 to June, 2016. The percentages for each types of decision were worked out, as showed in the following table:

	Manuscript	Accept	Desk Reject	Reject	Remove	Withdraw
Grand Total	235	36.2%	37.9%	19.6%	1.3%	5.1%

There is a totally 50 times citation for the stage of 2013-2016 based on 135 total publications.(Data are from SCOPUS). The Impact Factor we estimated should be about 0.65 for the year of 2017.

The 2<sup>nd</sup> editorial board has been esbtalished in August, 2016. We are much appreciated for the efforts from our Editor in Chief, Associate Editors and the Board



#### Members:

# 2<sup>nd</sup> Editorial Board

# (since 2016 September)

#### **Editor in Chief**

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# Welcome to submit your manuscript to our journal via

http://www.journals.elsevier.com/international-soil-and-water-conservation-research/





World Congress on Geochemistry



PULSUS group offers all the participants from all over the world to attend the conference on "Geochemistry" during November 16-17, 2017 at Atlanta, USA which includes top keynote presentations, Oral presentations, Poster presentations, and Exhibitions.

Geochemistry conference 2017 points towards addressing main issues as well as future strategies of Geo chemistry. This is going to be the largest and most promising international conference where geology and chemistry professionals as well as decision makers will come to discuss and debate on various aspects of the challenges, risks and investment opportunities throughout the complete integrated energy and utilities supply chain. Geochemistry International Conference will also provide the proper business opportunities and provide an in opportunity to make new decisions by meeting decision makes in the Geochemistry sector.

World Congress on Geochemistry (Geochemistry 2017) welcomes submission of abstracts for original contribution to the field in the following scientific tracks:

Track 1: Environmental Geochemistry and Health

Track 2: Isotope Geochemistry

Track 3: Biogeochemistry

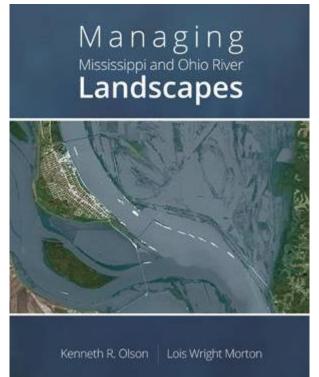
Track 4: Organic and Inorganic Geochemistry

Track 5: Petroleum Geochemistry

Details at: http://geochemistry.cmesociety.com/



# New Book



#### Managing Mississippi and Ohio River Landscapes

Kenneth R. Olson and Lois Wright Morton

Foreword by Samuel J. Indorante

2016, 240 full-color pages, hardcover

ISBN 978-0-9856923-1-5

Two powerful rivers, the Ohio and Mississippi, and their tributaries drain more than 41% of the interior continental United States. Their shifting paths have shaped and reshaped the landscapes through which they flow and the confluences where their sediment-laden waters co-mingle on the voyage to the Gulf of Mexico. Changing climates and extreme weather events over the millennia have carved new channels through river bottomlands, leaving rock-exposed uplands and fertile valleys behind while altering the location where the Ohio and Mississippi rivers meet. Since the great rivers often become state boundaries, their historic realignment has added or subtracted land from many states which border them. For much of their history, the lands adjacent to these rivers were low-lying bottomlands that flood with the seasons



unconstrained by human structures. However, in the last century these rivers have become agricultural economic engines as humans reengineered the rivers and their bottomlands with extensive systems of levees, locks and dams, floodwalls, and reservoirs.

Through a series of engaging case studies accompanied by illustrative maps and photographs, the authors examine the complex and ever-changing Mississippi and Ohio rivers' landscapes and their systems; review historical impacts of climate, economic and population growth, and efforts to manage river landscapes with engineered structures; and make recommendations on future management to protect soil and water resources and facilitate social, economic, and ecosystem balance. This book serves as a powerful resource for private and public landowners and managers, soil scientists, conservationists, sociologists, wetland specialists, hydrologists, geologists, and those interested in the future of our river landscapes.

Details at: http://www.swcs.org/en/publications/managing\_mississippi\_and\_ohio\_river\_landscapes/

Free read journal:

# **European Journal of Soil Science**

© British Society of Soil Science



Edited By: M. Oliver Impact Factor: 3.475 ISI Journal Citation Reports © Ranking: 2016: 5/34 (Soil Science) Online ISSN: 1365-2389 Associated Title(s): Soil Use and Management

http://onlinelibrary.wiley.com/journal/10.1111/%28ISSN%291365-2389/homepage/EditorsChoice.html2389/homepage/EditorsChoice.html

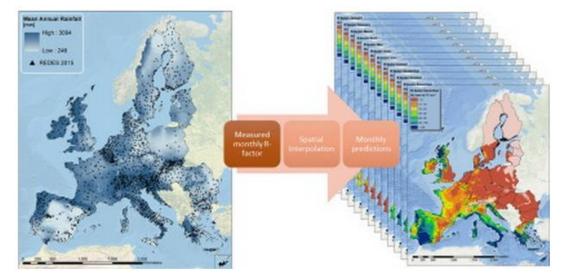


# Monthly erosivity in Europe



# JOINT RESEARCH CENTRE EUROPEAN SOIL DATA CENTRE (ESDAC)

Rainfall erosivity as a dynamic factor of soil loss by water erosion is modelled intra-annually for the first time at European scale. The development of Rainfall Erosivity Database at European Scale (REDES) and its 2015 update with the extension to monthly component allowed to develop monthly and seasonal R-factor maps and assess rainfall erosivity both spatially and temporally. During winter months, significant rainfall erosivity is present only in part of the Mediterranean countries. A sudden increase of erosivity occurs in major part of European Union (except Mediterranean basin, western part of Britain and Ireland) in May and the highest values are registered during summer months. Starting from September, Rfactor has a decreasing trend. The mean rainfall erosivity in summer is almost 4 times higher (315 MJ mm ha<sup>-1</sup> h<sup>-1</sup>) compared to winter (87 MJ mm ha<sup>-1</sup> h<sup>-1</sup>).



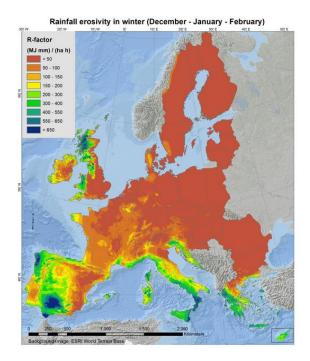
The Cubist model has been selected among various statistical models to perform the spatial interpolation due to its excellent performance, ability to model non-linearity and interpretability. The monthly prediction is an order more difficult than the annual one as it is limited by the number of covariates and, for consistency, the sum of all months has to be

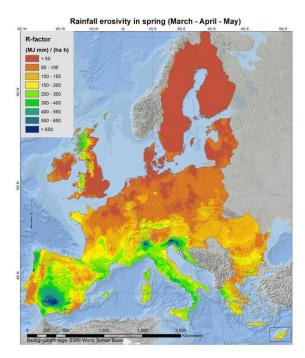


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close to annual erosivity. The performance of the Cubist models proved to be generally high, resulting in R<sup>2</sup> values between 0.40 and 0.64 in cross-validation. The obtained months show an increasing trend of erosivity occurring from winter to summer starting from western to Eastern Europe. The maps also show a clear delineation of areas with different erosivity seasonal patterns, whose spatial outline was evidenced by cluster analysis. The monthly erosivity maps can be used to develop composite indicators that map both intra-annual variability and concentration of erosive events. Consequently, spatio-temporal mapping of rainfall erosivity permits to identify the months and the areas with highest risk of soil loss where conservation measures should be applied in different seasons of the year.

Rainfall erosivity is mapped intra-annually for the first time at European scale. The monthly erosivity maps depict a quite large difference in erosivity. Across Europe, a comparable difference is present in the temporal dimension where the same area can have values of R orders of magnitude dissimilar in different times of the year.





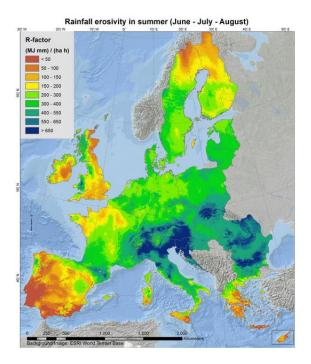
With the exception of the Mediterranean basin, the general spatial patterns of rainfall erosivity both in seasonal maps and monthly maps exhibit a smooth increase of R-factor from winter to spring, followed by a sharp intensification in summer and then a smooth decrease in autumn. The highest divergence is noticed in autumn (followed by winter) with low mean values in Central and Northern Europe and very high values in the southern part.

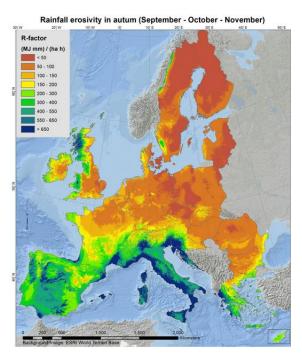


The objective of the seasonal R-factor maps is to show the seasonal patterns in European Union.

The monthly erosivity maps allowed the development of indicators for studying the intraannual variability of erosivity and the concentration of erosive events. Those composite indicators are the

a) Seasonal erosivity by Köppen-Geiger climate classification and cluster analysis b) Ratio between lowest and the highest erosivity c) Weighted erosivity density and Coefficient of Variation (CV) of monthly erosivity density d) Months with highest and lowest erosivity Seasonal erosivity by Köppen-Geiger climate classification and cluster analysis: A different approach is to use the R-factor values itself to identify relatively homogeneous areas in terms of rainfall erosivity seasonal patterns by cluster analysis. Clusters capture most of the variability of the R-factor in Europe. The fact that different clusters represent quite different precipitation regimes can be evidenced by plotting values of R-factor densities by month and cluster.





Ratio between lowest and the highest erosivity: While the monthly erosivity maps give a general idea about the areas with the highest variability in rainfall erosivity across the year, a better understanding can be obtained by creating amap of the ratio between the lowest and the highest erosivity values.



Weighted erosivity density: An assessment of the distribution of erosivity over the year is critical for management and mitigation procedures, so the development of composite indicators expressing not only the yearly estimate, but also the relative impact of extreme events is critical for soil conservation. In this study, we attempted to develop a composite indicator summarizing the intra-annual variability as well as its dependence by extreme events. This indicator is expressed as the ratio between annual erosivity density and the Coefficient of Variation (CV) of monthly erosivity density.

Months with highest and lowest erosivity: Another essential information about rainfall erosivity is the time of the year when erosivity is at its maximum as well as when it is at its minimum.

#### References

Ballabio, C., Borrelli, P., Spinoni, J., Meusburger, K., Michaelides, S., Beguería, S., Klik, A., Petan, S., Janecek, M., Olsen, P., Aalto, J., Lakatos, M., Rymszewicz, A., Dumitrescu, A., Tadić, M.P., Nazzareno, D., Kostalova, J., Rousseva, S., Banasik, K., L., Alewell, C., Panagos, P. 2017. Mapping monthly rainfall erosivity in Europe. Sci Total Environ. 579: 1298-1315.

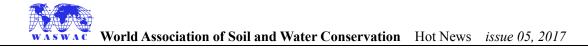
#### Data

Download the Monthly, seasonal erosivity datasets and the composite indicators described above from:

http://esdac.jrc.ec.europa.eu/content/rainfall-erosivity-european-union-and-switzerland

Download the presentation of "Seasonal variation and climate change impact in Rainfall Erosivity across Europe" here

http://esdac.jrc.ec.europa.eu/public\_path/u890/Erosion/Erosivity-EGU2017.pdf





#### 1. Agricultural Soil Scientist



#### The position:

As an Agricultural Soil Scientist with CSIRO Agriculture and Food, you will be an integral member of our Soil Process and Function Group. You will apply your detailed understanding of Australian soils, their state, their function and their appropriate management to increase the productivity and sustainability of Australian agriculture. You will contribute to the development of strategies to provide and use spatial soil information at farm and small catchment scale, enabling farmers to benefit from precision, zone and mosaic management approaches.

Maintain a high level of science specialization

Publish innovative original research in high quality scientific journals

Deliver practical outcomes for use in the agricultural industries

Develop new business

Build a portfolio of exciting research projects

This is a significant long-term research career opportunity for the right candidate. Click on the "Position Details" link below for more information on this opportunity. Apply today! Enquiries from applicants seeking part time work are encouraged and will be considered case-by-case.

Location: Black Mountain Science and Innovation Park (Canberra) Australian Capital Territory

Salary: AU \$92K to AU \$100K plus up to 15.4% superannuation

**Tenure:** Indefinite



#### Ref no: 41062

We recommend that you view the Position Details for this role before preparing your application - Position Details

At CSIRO we invent the future. We do this by using science and technology to solve real issues. Our solutions make a difference to industry, people and the planet. As Australia's national science agency we've been pushing the edge of what's possible for almost 90 years. Today we have thousands of talented people working across Australia and internationally. Our people work closely with industry and communities to leave a lasting legacy. Collectively, our innovation and excellence places us in the top ten applied research agencies in the world. We Collaborate to Innovate.

If you are interested in this opportunity please apply online at CSIRO Careers: <u>https://jobs.csiro.au/job/Canberra%2C-ACT-Soil-Scientist/413046800/</u>

Please submit one document incorporating a resume and covering letter that best demonstrates your motivation and ability to meet the requirements of the role.

Applications close Monday 17 July, 2017 (11:59pm AEST)

Details at: http://www.earthworks-jobs.com/soil/csiro17062.html

2. Three Assistant Professor Positions in Terrestrial/Forest Ecology



Young and research-intensive, Nanyang Technological University (NTU Singapore) is ranked 13th globally. It is also placed 1st amongst the world's best young universities.

The Asian School of the Environment (ASE) at NTU Singapore (<u>www.ntu.edu.sg</u>) seeks to hire three creative and cutting edge Assistant Professors as part of a targeted initiative to expand ecological and environmental research in Southeast Asia. The Asian School of the Environment is a new interdisciplinary School that focuses on



Asian environmental challenges. These three positions will complement the recently developed formal collaboration link of the ASE with the Smithsonian Tropical Research Institute, which is aimed at advancing Singapore's capacity in terrestrial (and notably forest) ecology with particular reference to the Southeast Asian region. Strong interdisciplinary links between the ASE and the Singapore Centre on Environmental Life Sciences Engineering, the Earth Observatory of Singapore and Complexity Institute provide excellent opportunities for tackling large, cutting edge research questions. Successful applicants will also contribute to development and execution of new undergraduate programs in ecology and related environmental science.

#### 1. Forest soil microbial ecology

We seek a soil microbiologist who has an interest in terrestrial (and especially forest) ecosystems. Research interests may include but are not limited to plant-soilmicrobial interactions, mycorrhizal ecology, or the role of microbes in biogeochemical and/or carbon cycling. Familiarity with modern sequencing methods for studying microbial communities would be highly desirable.

#### 2. Forest invertebrate ecology

We seek an invertebrate ecologist (with a focus on belowground and/or aboveground invertebrates) who has an interest in forest ecosystems. Research interests may include but are not limited to invertebrate biodiversity, the decomposer subsystem, plant-herbivore interactions, trophic interactions or food web ecology. Some invertebrate taxonomic identification skills would also be desirable.

#### 3. Forest biogeochemistry

We seek a soil biogeochemist who has an interest in forest ecosystems. Research interests may include but are not limited to carbon and nutrient (notably nitrogen and/or phosphorus) cycling, plant-soil interactions and feedbacks, the decomposer subsystem, or microbial or organic biogeochemistry.

The candidates are expected to:

Establish a world-class research program,

- Play a leading role in the development of the ASE, and of the linkages of the ASE with the Smithsonian Tropical Research Institute
- Enhance the School's visibility as an international leader in education and research in Ecology and Ecosystem Science,
- Feach undergraduate and graduate courses in Ecology and related Environmental Sciences,
- Actively collaborate with NTU faculty and researchers with existing strengths in Ecology, Earth Systems Science and Environmental Life Sciences

Applications, including the applicant's experience/philosophy of research and of teaching, a CV, and contact information for three professional references, should be sent to the Chairman of the Search Committee, NTU, at ASE-Forestecology@ntu.edu.sg. It should be clearly stated which of the three positions that the application is for.

Enquiries can be sent to David Wardle, Smithsonian Professor of Forest Ecology (<u>david.wardle@ntu.edu.sg</u>).

Review of applications will begin on September 1 2017 and will continue until the position is filled. NTU offers highly competitive salaries as well as comprehensive benefits, including subsidized on-campus housing. A start-up package will be available. NTU is an equal opportunity employer.

More information can be found at: <u>http://www.ase.ntu.edu.sg/</u>

Details at: http://www.earthworks-jobs.com/ecology/nanyang17061.html



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

#### (For applicants from all countries)

Name: (Ms./Mrs./Mr./Prof./Dr.)			Gender: $\Box F \Box M$			
Institution:						
Postal address:						
State/Province:						
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*: $\Box 1(IM) \Box 2(LM) \Box 3(OM) \Box 4(SM\&GM)$						
Membership for the year(s)	@US\$	=	US\$			
Donation for developing country	membership, etc.		US\$			
Donation to the Moldenhauer Fu	nd		US\$			
		Total	US\$			

\*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.

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): World Association of Soil and Water Conservation

does not apply for **WESTERN UNION** or any payment of US\$50 or more.

**Bank Name and Address:** China Construction Bank, Shoutinanlu Branch, Beijing, China, No. 9 Shoutinanlu Street, Haidian District, Beijing, P R China

A/C NO.: 1100 1042 7000 5301 6996

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