WASWAC

WORLD ASSOCIATION OF SOIL AND WATER CONSERVATION

HOT NEWS

Issue 04, 2017

WASWAC HOT NEWS No. 04, April, 2017

Contents

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

IRTCES Building

(Where the Secretariat of WASWAC is located)

The Secretariat of WASWAC

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

Tel: +86-10-68786579

Fax: +86-10-68411174

Email: waswac@vip.163.com

For ISWCR paper submission:

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

WASWAC Website: www.waswac.org

IRTCES Exhibition in the EGU General Assembly 2017

The International Research and Training Center on Erosion and Sedimentation (IRTCES) exhibition in the EGU General Assembly 2017 was a great success.

Dr. Paige Chyu and Mr. Ping Gan, the representatives of IRTCES attended the Assembly from April 23 - 29, 2017 in Vienna, Austria. A special booth with number 217 was set up to promote the activities of WASWAC and WASER, and also to enhance the visibility of the Journal of International Soil and Water Conservation Research (ISWCR，the official journal of WASWAC) and the International Journal of Sediment Research (IJSR, the official journal of WASER) in the scientific community.

The EGU General Assembly is a prominent annual event that brings together geoscientists from all over the world into one meeting covering all disciplines of the Earth, planetary and space sciences. In this year, there were 14,496 scientists from 107 countries at the conference.

During the exhibition, the mission of WASWAC and WASER have been introduced and the recent activities have been showed. The samples of ISWCR and IJSR have been displayed.

A highlighted review paper that was recently published on ISWCR by Prof. Marking Nearing has been promoted as the lights pot of our exhibition.

During the exhibition, we have also exchanged and discussed the development of the WASWAC and ISWCR with numbers of scientists working in soil and water

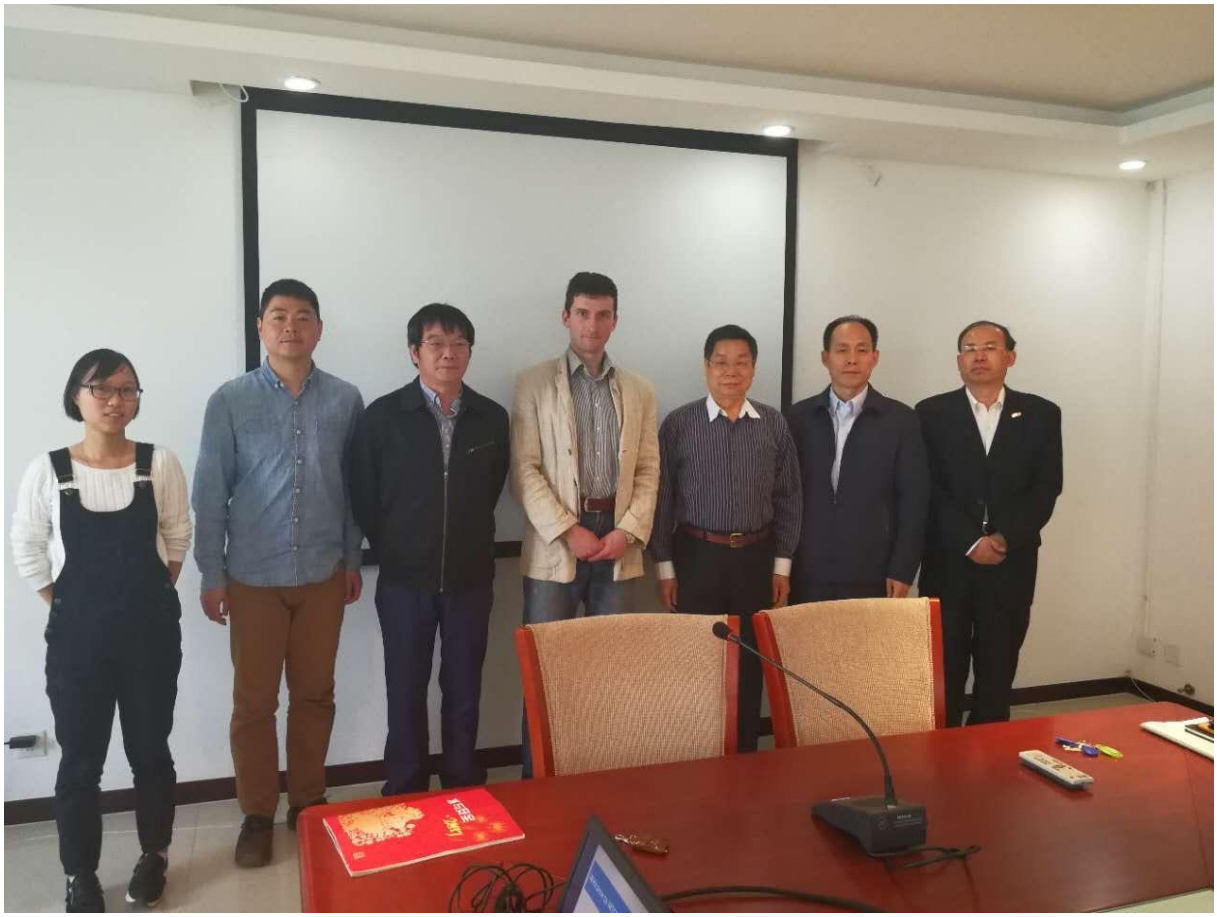
conservation related fields.

We thank all editorial member, members of council, and ordinary members of WASWAC and WASER who stop by our booth. Thanks so much not only for your showing up at our booth but also for your active contributions to the associations and the Journals.

The Second International Youth Forum on Soil and Water Conservation (2nd IYFSWC)

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

On April 17, Dr. Sergey R. Chalov, from the Faculty of Geography, Lomonosov Moscow State University, Russia, visited the secretariat of WASWAC, which is located in IRTCES, Beijing, China, to discuss more details about the coming event.



A group photo

Prof. Li Rui, the president of WASWAC was in charge of the discussion, Prof. Ning

Duihu, the secretary of general of WASWAC expressed warm greetings for Dr. Sergey R. Chalov's arrival, Prof. Liu Xiaoying, the treasure of WASWAC, Prof. Lei Tingwu, the one of Editors in Chief of ISWCR, Dr Wang Bin, the president of WASWAC Youth Committee, and Dr Paige Chyu, the executive editor of ISWCR attened this conference.

This event is followed the first session, which was held in Nanchang, China, during October 16 -18, 2015. In that session, more than 150 participants distributed in 20 countries have attended. During three days conference, 15 outstanding scholars provided all participants a very high level academic presentation. Focusing on topic of this forum, "Youth – the future of soil and water conservation", 22 young scientists were arranged in 3 groups to give excellent reports based on their researches related to soil and water conservation.

Some details about the second session have been fully discussed. The first round flyer is being prepared based on the discussion results. We welcome all our members to take this opportunity be Moscow to attend this meaningful event in next summer. Fresh developments will be released in our Hot News very soon, please pay your great attention to it.

The Second International Youth Forum on Soil and Water Conservation (2nd IYFSWC)

Summer of 2018

(Details will be coming soon)

COMMING MEETINGS

1st World Conference on Soil and Water Conservation under Global Change (CONSOWA)

(Instructions details in www.consowalleida2017.com)

Managing Global Resources for a Secure Future

INTERNATIONAL SCIENTIFIC MEETING

MANAGING GLOBAL RESOURCES FOR A SECURE FUTURE

October 22-25, 2017 | Tampa, FL

The American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America will host more than 4,000 scientists, professionals, educators, and students at the 2017 International Annual Meeting, "Managing Global Resources for a Secure Future," on Oct. 22-25, 2017, in Tampa, Florida.

NOTICE: Due to a system upgrade, our payment portal will be down the week of May 15-21. Abstracts must still be initiated by May 23 to be accepted into the program, but payment has been extended through May 30 at the late submission rate. All unpaid abstracts after May 30 will be excluded from the program.

Details at: https://www.soils.org/meetings

VASWCD 2017 Annual Meeting

The Portsmouth Renaissance – December 3-5, 2017

Join us for our 2017 Annual Meeting in Portsmouth for what will be a great networking and educational session.

Brief Introduction on VASWCD:

The Virginia Association of Soil and Water Conservation Districts (VASWCD) is a private nonprofit association of 47 soil and water conservation districts in Virginia and is classified accordingly as a 501(c)(5). It is a voluntary, nongovernmental association of Virginia's districts. The Virginia Association of Soil and Water Conservation Districts and its Educational Foundation, a 501(c)(3), provides and promotes leadership in the conservation of natural resources through stewardship and education programs. It coordinates conservation efforts statewide to focus effectively on issues identified by local member districts. Our mission is to serve and strengthen soil & water conservation districts in the stewardship of natural resources.

Details at: http://vaswcd.org/annual-meeting#

International conference on clean water, air, and soil 2017

CleanWAS is the conference organized every year since 2012 under The International Water, Air and Soil Conservation society (INWASCON) with joint supports from International Islamic University Malaysia, Nankai University,

Mahidol University, China University of Geosciences, Chulalongkorn University, Universiti kebangsaan Malaysia and Chiang Mai University.

The aim of CleanWAS 2017 is to provide productive opportunities for academics and practitioners from interdisciplinary fields of Environmental Sciences to meet, share and take away expertise and ideas in related disciplines. The conference will bring together leading researchers, engineers and academician in the domain of interest from around the globe. CleanWAS 2017 offers interdisciplinary themes of quality R&D topical developments from potential contributors and experts and provides an opportunity in bring in the new techniques and horizons that will contribute to clean environment.

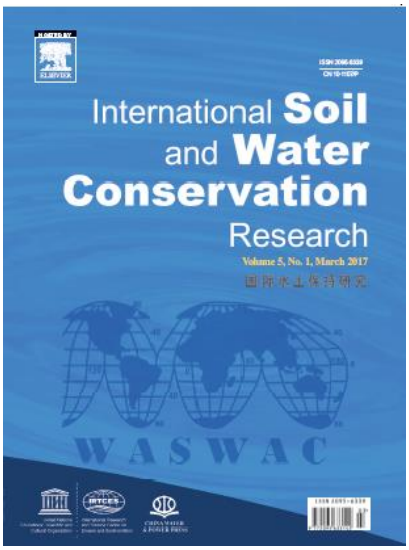
Clean Water, Air & Soil 2017 Themes

Agriculture and Forestry	Air	Biodiversity	Biological Resources	Bioremediation	Carbon Capture and Storage
Climate Change	Ecosystems	Ecotoxicity	Emission Sources	Energy Management	Environmental Health Issues
Environmental Monitoring	Environmental Science	Flooding	Hazardous Substances	Human-Environment Interaction	Human Food Chain
Hydrology and Water Resources	Life Sciences	Natural Resources Management	Oceanography and Marine Sciences	Organic Environment Interactions	Pollution Prevention
Recycling	Renewable	Soils	Sustainability	Waste Management	Water & Wastewater Management

The conference proceedings will be published in book/proceedings by RAZI PUBLISHING and will be sent for CPCI indexation (Web of Science). Selected papers will be published in many collaborated ISI paid journals. Excellent research papers will be recommend to top non paid journals.

Details at: http://inwascon.org.my/cleanwas/

Review paper on natural and anthropogenic rates of soil erosion was published in ISWCR



Published and Hosted by

ELSEVIER

Submit your paper to us via
https://www.journals.elsevier.com/international-soil-and-water-conservation-research/

Official Journal of

WASWAC

Sign up for our Table of Contents alert.
It's easy and free!
https://www.evise.com/evise/jrnl/ISWCR

Highlight

This article will be of great importance for students to learn the overall pictures of natural and anthropogenic aspects of soil erosion, to scientists to identify the diverse directions of scientific researches, and to applicators to make rational decisions of soil conservation practices.

The paper is published in International Soil and Water Conservation Research, doi:10.1016/j.iswcr.2017.04.001

OPEN ACCESS

http://www.sciencedirect.com/science/article/pii/S2095633917300618

Authors

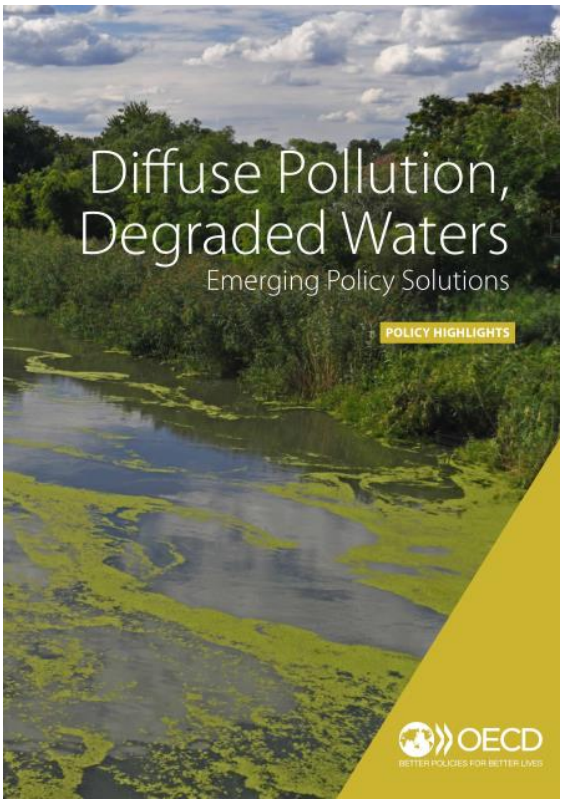
Mark Nearing
USDA-ARS Southwest Watershed Research Center
Adjunct Professor
University of Arizona, USA.

Dr. Nearing is recognized as an international leader in the areas of erosion processes, erosion modeling, and soil conservation, and recipient of the Hugh Hammond Bennett Award. He has authored more than 170 SCI, peer-reviewed journal articles, and is past-President and on the Board of Directors for the International Soil Conservation Organization, and has led or helped in the organization of many international meetings on soil erosion and conservation.

Yun Xie,
Professor, Beijing Normal University, China
Baoyuan Liu,
Director, State Key Laboratory of Soil Erosion and Dryland Farming in the Loess Plateau, China
Yu Ye,
Associate Professor, Beijing Normal University

Please cite this article as: Nearing, Mark, Yun Xie, Baoyuan Liu, Yu Ye, Natural and anthropogenic rates of soil erosion, International Soil and Water Conservation Research , 2017,5(2): 1-8. http://dx.doi.org/10.1016/j.iswcr.2017.04.001

Diffuse Pollution, Degraded Waters



After decades of regulation and investment to reduce point source water pollution, OECD countries still face water quality challenges (e.g. eutrophication) from diffuse agricultural and urban sources of pollution, that is disperse pollution from surface runoff, soil filtration and atmospheric deposition. The relative lack of progress reflects the complexities of controlling multiple pollutants from multiple sources, their high spatial and temporal variability, associated transactions costs, and limited political acceptability of regulatory measures. This report outlines the water quality challenges facing OECD countries today, presents a range of policy instruments and innovative case studies of diffuse pollution control, and concludes with an integrated policy framework to tackle diffuse water pollution. An optimal approach will likely entail a mix of policy interventions reflecting the basic OECD principles of water quality management – pollution prevention, treatment at source, the polluter pays and beneficiary pays principles, equity, and policy coherence.

Details at: http://www.oecd.org/env/resources/diffuse-pollution-degraded-waters-9789264269064-en.htm

1. Lyell Fellowships

HERIOT WATT UNIVERSITY

Location: Riccarton, Edinburgh

Salary: Grades 7 - 8, £31,076 - £46,924 (Salary dependent on experience)

Closing Date:26th May 2017

The Lyell Centre for Earth and Marine Science and Technology (www.lyellcentre.ac.uk/), a joint initiative between Heriot-Watt University and the British Geological Survey, based in Edinburgh invites applications for Lyell Fellowship positions in the areas of Applied Geosciences and Ecosystems Sciences.

As our successful applicant, you will join a vibrant research environment, with emerging clusters of excellence at the interface between Terrestrial and Marine Biogeochemistry/Microbiology, Marine and Terrestrial Ecosystems, and Geo-Energy.

To complement and further develop our teams we are inviting applications in the areas of unconventional reservoir characterisation and subsurface risk assessment, carbon capture and storage, subsurface energy storage, environmental and petroleum geomicrobiology, soil biogeochemistry, extreme environments (terrestrial to deep sea, modern and past), environmental risks, water management, systems modelling (incl. ecosystem/biogeochemical/climate), bioinformatics/evolutionary genomics. Other areas relevant to the Lyell research mission will also be considered. Please see www.lyellcentre.ac.uk for further information.

You will have a strong academic track record with evidence for initial research leadership, international standing, and an expressed strategy of how to develop the respective field or research. It is anticipated that you will actively complement existing and create new

synergies with teams at the Lyell Centre, the Institute of Life and Earth Sciences (ILES), the Institute of Petroleum Engineering (IPE) and the British Geological Survey. It is also expected that you will contribute to teaching and supervision of students.

We are welcoming applications until 26th May 2017 using the following link: jobs.hw.ac.uk

Interviews will take place in June 2017.

For further information please contact: Prof Tom Wagner, Co-Director Lyell Centre (t.wagner@hw.ac.uk)

How to Apply For more information about the role and application details, please see our website www.hw.ac.uk/jobs

Details at: http://www.earthworks-jobs.com/geoscience/hw17051.html

2. Research Associate/Fellow in Soil and Plant Science

The University of Nottingham
UNITED KINGDOM · CHINA · MALAYSIA

£26,052 - £38,183 a year

We are seeking an excellent remote sensing scientist. The post-holder will analyse Sentinel 1 and 2 data over a series of wetland areas in Mexico to determine above ground biomass, tree species composition and rates of land use change. The work will involve image collation and processing as well as close collaboration with partners in Mexico. Data analysis, presentation and preparation for publication are also required.

The post is funded by a Newton funded Institutional Links project between the University of Nottingham, UK and INECOL, Mexico. This project includes wetland ecology and biogeochemistry, remote sensing technologies, and ecosystem services modelling and mapping. Therefore the post-holder must be able to work as part of a multi-disciplinary team.

Applicants must have or be close to completing a PhD in a terrestrial environmental science area and ideally in Geography using remote sensing data. Excellent oral and written English and Spanish skills are essential. Applicants must be highly motivated,

ambitious and have a proven track record of timely research publications (from PhD or beyond).

This full-time post is fixed-term from 1 August 2017 until 31 January 2018.

Informal enquiries may be addressed to Sofie Sjogersten tel: 0115 951 6239 Or email sofie.sjogersten@nottingham.ac.uk. Please note that applications sent directly to this email address will not be accepted.

The University of Nottingham is an equal opportunities employer and welcomes applications from all sections of the community.

Details at: http://www.earthworks-jobs.com/rsgis/nottingham17052.html

3. International Sustainable Land Management(SLM) Expert

Food and Agriculture Organization of the United Nations

CALL FOR EXPRESSIONS OF INTEREST

Contract duration: 21 Days WAE (Initially for 14 Days)

Rehabilitation of degraded agricultural lands in Kandy, Badulla and Nuwara Eliya Districts in the Central Highlands", is a project funded by the Global Environmental Facility (GEF) through its land degradation portfolio. The project will be implemented with the Ministry of Mahaweli Development and Environment (MoMD&E) in close consultation with the Natural Resource Management Centre (NRMC) of the Department of Agriculture (DoA). The 4-year project will operate under the technical supervision, monitoring and reporting to GEF by the Food and Agriculture Organisation of the United Nations (FAO). The international consultant will work under the overall guidance and supervision of the FAO Representative and the Lead Technical Officer, and the technical supervision of the relevant FAO Technical Officers, in consultation with relevant government departments, non-government organizations and other national and international organizations, the incumbent shall be responsible for the below mentioned duties and responsibilities in two missions. He/she will closely interact with the national and international consultants and

project staff and will be supported by other staffs of the Project.

Specific responsibilities are as follows:

1st Mission:

- Review and provide inputs to the SLM packages and implementation modalities identified by National SLM consultant;
- mprove SLM Training modules prepared by National Consultant
- Suggest effective implementing strategies based on the international experience and practices on SLM while ensuring participatory SLM approach

2ndMission:

Review the SLM practices adopted and provide directions and recommendations addressing the issues emerged in SLM implementation.

KEY PERFORMANCE INDICATORS	
Expected Outputs:	Required Completion Date:
• A report on review of SLM packages and implementation modalities identified by National SLM consultant and SLM training module. • A report including suggestions for effective implementing strategies based on international experience and practices on SLM aligned to Sri Lankan context with recommendations for SLM manual.	• 14 Days after the first mission • 7 Days after the second mission

Candidates should meet the following requirements:

Minimum Requirements

- Higher degree related to land or natural resources management;
- At least ten years of experience successfully supporting the development of participatory land management in developing countries;
- Demonstrated knowledge of SLM technologies and approaches;
- Demonstrated ability to effectively communicate, using written, verbal and IT techniques, with all forms of forest stakeholders – including government, international partners, national experts and forest users;
- Previous experience in Sri Lanka/South Asia is highly preferable

Selection criteria

- Educational qualifications of above
- Working experience

Additional Information

FAO seeks gender, geographical and linguistic diversity in its staff and international consultants in order to best serve FAO Members in all regions.

All candidates should adhere to FAO values of Commitment to FAO, Respect for All and Integrity and Transparency.

How to apply

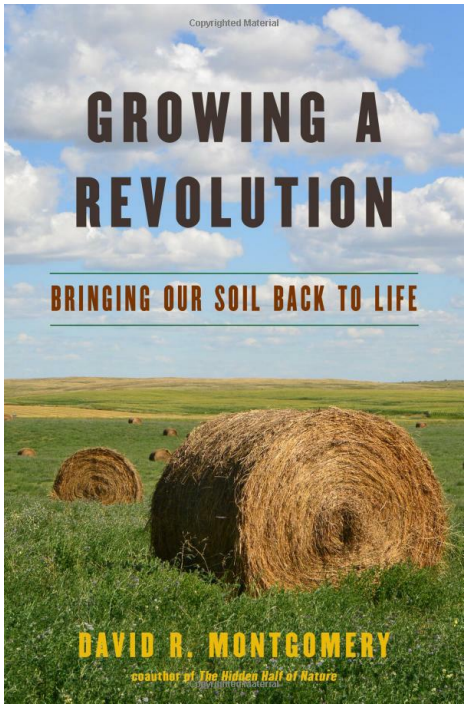
All applications are to be made through FAO's **iRecruitment** system. Click on the link below to access **iRecruitment**, complete your online profile and apply for this Call for Expression of Interest.

http://www.fao.org/employment/irecruitment-access/en/

In order for your application to be properly evaluated, please ensure that all sections of your iRecruitment account are completed. Incomplete applications will not be evaluated.

If you need help, or have queries, please contact: **iRecruitment@fao.org**

Growing a Revolution: Bringing Our Soil Back to Life



The problem of agriculture is as old as civilization. Throughout history, great societies that abused their land withered into poverty or disappeared entirely. Now we risk repeating this ancient story on a global scale due to ongoing soil degradation, a changing climate, and a rising population.

But there is reason for hope. David R. Montgomery introduces us to farmers around the world at the heart of a brewing soil health revolution that could bring humanity's ailing soil back to life remarkably fast. Growing a Revolution draws on visits to farms in the industrialized world and developing world to show that a new combination of farming practices can deliver innovative, cost-effective solutions to problems farmers face today.

Cutting through standard debates about conventional and organic farming, Montgomery explores why practices based on the principles of conservation agriculture help restore soil health and fertility. Farmers he visited found it both possible and profitable to stop plowing up the soil and blanketing fields with chemicals. Montgomery finds that the combination of no-till planting, cover crops, and diverse crop rotations provides the essential recipe to rebuild soil organic matter. Farmers using these unconventional practices cultivate beneficial soil life, smother weeds, and suppress pests while relying on far less, if any, fertilizer and pesticides.

These practices are good for farmers and the environment. Using less fossil fuel and agrochemicals while maintaining crop yields helps farmers with their bottom line. Regenerative practices also translate into farms that use less water, generate less pollution, lower carbon emissions—and stash an impressive amount of carbon underground. Combining ancient wisdom with modern science, Growing a Revolution lays out a solid case for an inspiring vision where agriculture becomes the solution to environmental problems, helping feed us all, cool the planet, and restore life to the land.

ISBN-13: 978-0393608328

ISBN-10: 0393608328

Cooperation for Climate Action at IPCC Outreach Event

(Friday, 13 April 2017, Kathmandu, Nepal)

More than 250 experts, policy makers, government officials, journalists and youth convened in Kathmandu this week to discuss climate change in the Hindu Kush Himalaya. After sharing studies and experiences about climate change in the region, they discussed ways to combine their efforts to create meaningful action against the impacts of rising temperatures and other climate change effects.

This International Conference was organized by the Ministry of Population and Environment (MoPE) and the International Centre for Integrated Mountain Development (ICIMOD), in collaboration with the Intergovernmental Panel on Climate Change (IPCC), the participants explored a range of topics from climate financing and mountain communities to the social and business implications of climate change.

Dr Bishwa Nath Oli, Secretary, MoPE, Government of Nepal addressing the inaugural and keynote plenary session.
Photo Credit: Jitendra Bajracharya/ICIMOD

During the four-day conference, opinions differed among participants about what courses of action to take. But there was wide consensus about the need for regional cooperation, multi-stakeholder partnership, and scientific data to generate consequential, evidenced-based policy and climate action at all levels of government in the HKH. During the conference, IPCC scientists presented data and answered

questions related to the 5th Assessment Report cycle. This report presented compelling and comprehensive evidence that human influence on the climate system is clear and the more we disrupt our climate, the more we risk severe, pervasive and irreversible impacts. Despite this grim outlook, the IPCC also concludes that we have the means to limit climate change and build a more prosperous, sustainable future. The International Conference provided pathways for the 6th Assessment Report process and established linkages between the HKH and the IPCC bringing science into policy and practice.

As the IPCC enters its 6th Assessment Report cycle, it is critically important that national and regional assessment and reporting contribute to the reporting process. ICIMOD's Director General, Dr. David Molden, focused on the potential for HKH countries to pool their resources and efforts to create a larger singular voice for mountain people. "Mountain countries, like island states," Molden told the audience, "can create a shared voice in climate negotiations to influence others to work together to reduce emissions."

Positioned to contribute directly to the IPCC's 6th Assessment Report cycle, ICIMOD has led the Hindu Kush Himalayan Monitoring and Assessment Programme (HIMAP) which brings together hundreds of scientists and policy experts from the region and around the world to address knowledge gaps in the HKH and chart a way forward. Dr. Philippus Wester, HIMAP Coordinator, explains that "The HIMAP comprehensive assessment goes beyond climate change to assist with efforts to address threats, act on opportunities, and scale up cutting-edge approaches."

The conference also featured launching of:

- A solutions brief on "Women as Risk and Resource Managers"
- A web-based Poverty and Vulnerability Assessment (PVA) tool
- A book published by CAHC - Overview of Climate Change: Impact and Adaptation in Nepal Himalayas

Details at: http://www.icimod.org/?q=26942

WASWAC MEMBERSHIP APPLICATION/RENEWAL FORM (Issued 120501)

(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.

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.

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

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