



International Conference

**Advancing the Science and Technology of Soil Information in Asia —
Launch of the Global Soil Partnership's Asia Soil Science Network and
GlobalSoilMap.net East Asia Node
8-11 February, 2012, Nanjing, China**

ORGANIZERS

State Key Laboratory of Soil and Sustainable Agriculture
Institute of Soil Science, Chinese Academy of Sciences
The Sino-EU Panel on Land and Soil (SEPLS)
United Nations Food and Agriculture Organization
GlobalSoilMap.net

SPONSORS



Technical Program

Day 1: Tuesday, February 7, Jiuhua Hotel

- 12:00-20:00** **Registration**
19:00-20:00 Ice-breaking, drinks and snacks (VIP Lounge, 1st Floor)

Day 2: Wednesday, February 8, Jiuhua Hotel

The Grand Conference Room, 3rd Floor

Session 1: Opening Ceremony and Plenary Addresses (08:30 – 12:00)

Session Chair: Renfang SHEN and Ganlin ZHANG (Institute of Soil Science, Chinese Academy of Sciences)

- 08:30-09:00** **Welcoming Remarks**
- **Chinese Academy of Sciences**
Deputy Bureau Chief, CAS, Prof. Huasheng QIU
 - **The Ministry of Science and Technology of China**
Division Chief, Dr. Jie XU
 - **National Natural Science Foundation of China**
Division Chief, Prof. Yinglan ZHANG
- 09:00-09:30** **The Global Soil Partnership by FAO**
Ronald VARGAS (FAO Land and Water Division)
- 09:30-10:00** **Global soil mapping by GlobalSoilMap.net**
Neil MCKENZIE (CSIRO Land and Water)
- 10:00-10:30** **Group Photo Taking & Tea Break**
- 10:30-11:00** **ISRIC's role in a digitizing world facing scarcity of natural resources**
Prem BINDRABAN (International Soil Reference and Information Centre)
- 11:00-11:30** **The Oceania Node: progress towards multi-functional soil information**
Michael GRUNDY (CSIRO Ecosystem Sciences)

11:30-12:00 **The European Soil Data Centre**
Gergely TOTH (European Commission, Joint Research Centre,
Institute for Environment and Sustainability)

12:00-14:00 **Lunch & Break**

Session 2: Country Presentations (14:00 – 15:40)

Session Chair: Srimathie INDRARATNE (Senior Professor, Department of Soil Science, Faculty of Agriculture, University of Peradeniya; President of Soil Science Society of Sri Lanka)

14:00-14:25 **Land and soil resources database for grass-root agricultural development in Bangladesh**
S.M. Imamul HUQ and A.F.M. Manzurul HOQUE (Department of Soil, Water and Environment, University of Dhaka; Senior Scientific Officer, Soil Resources Development Institute)

14:25-14:50 **Values of soil and land management education, experiences from Bhutan**
Chencho NORBU (Department of Agriculture, Ministry of Agriculture and Forests)

14:50-15:15 **Legacy soil data from China national soil survey**
Weili ZHANG (Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences)

15:15-15:40 **Soil database of China and carbon dynamics at regional scale**
Xuezheng SHI (Institute of Soil Science, Chinese Academy of Sciences)

15:40-16:00 **Tea Break**

Session 3: Country Presentations (16:00 – 17:40)

Session Chair: Silvino TEJADA (Executive Director, Bureau of Soils and Water Management, Philippines)

16:00-16:25 **Soil information system of Taiwan soils and its applications**
Zueng-Sang CHEN (Department of Agricultural Chemistry, National Taiwan University)

16:25-16:50 **Policy and development of agricultural land resources mapping in Indonesia: experiences, achievements and impacts**
Muhrizal SARWANI (Indonesian Center for Agricultural Land Resource Research and Development)

- 16:50-17:15** **The status, research progress, and new application of soil inventory system in Japanese agricultural land**
Yusuke TAKATA (Natural Resources Inventory Center, National Institute for Agro-Environmental Sciences)
- 17:15-17:40** **Forest soils in Japan, and its state of development of soil information infrastructures**
Satoru MIURA (Department of Forest Site Environment, Forestry and Forest Products Research Institute)
- 18:00-20:00** **Welcoming Dinner at *Taiping Shengshi Restaurant***

Day 3: Thursday, February 9, Jiuhua Hotel

VIP Lounge, 1st Floor

Session 1: Country Presentations (08:30 – 09:45)

Session Chair: Aniruth POTICHAN (Land Development Department, Ministry of Agriculture and Cooperatives)

- 08:30-08:55** **Soil mapping of Mongolia**
Ochirbat BATKHISHIG (Soil Science Department, Institute Geography, Mongolian Academy of Sciences)
- 08:55-09:20** **Land use changes and land management in North Korea**
Pyongsop RI and Chol Hyok Kang (Institute of Remote Sensing and Geo-informatics, Democratic People's Republic of Korea Academy of Sciences)
- 09:20-09:45** **Status of digital soil mapping in the Bureau of Soils and Water Management of Philippines**
Silvino TEJADA and Rodelio CARATING (Bureau of Soils and Water Management)
- 09:45-10:00** **Tea Break**

Session 2: Country Presentations (10:00 – 12:05)

Session Chair: A.F.M. Manzurul HOQUE (General Secretary, Soil Science Society of Bangladesh and Senior Scientific Officer, Soil Resources Development Institute)

- 10:00-10:25** **Soil and environmental information system of Korea**
Suk-Young HONG (National Academy of Agricultural Science, RDA)
- 10:25-10:50** **Present status and future needs of soil database development in Sri Lanka**
Ranjith MAPA and Srimathie INDRARATNE (Department of Soil Science, Faculty of Agriculture, University of Peradeniya)
- 10:50-11:15** **Soil maps and soil information of Thailand**
Aniruth POTICHAN (Land Development Department, Ministry of Agriculture and Cooperatives)
- 11:15-11:40** **Using soil information for agricultural production in Vietnam**
Tien Minh TRAN (Soil Genesis and Classification Research Department, Soils and Fertilizers Research Institute)
- 11:40-12:05** **Using Kriging combined with categorical information of soil maps for interpolating soil properties**
Dar-Yuan LEE (Department of Agricultural Chemistry, National Taiwan University; Chinese Society of Soil and Fertilizer Sciences)
- 12:05-14:00** **Lunch & Break**

Session 3: New Perspectives of Soil Information Research (14:00 – 15:30)

Session Chair: Michael GRUNDY (CSIRO Ecosystem Sciences)

- 14:00-14:30** **Soil mapping goes digital - the Globalsoilmap experience**
Alex MCBRATNEY (Faculty of Agriculture, Food & Natural Resources, University of Sydney)
- 14:30-15:00** **Soil mapping in the digital era: narrowing the digital divide**
A-Xing ZHU (Department of Geography, University of Wisconsin -Madison)
- 15:00-15:30** **Global soil information facilities – current status and the way forward**
Hannes REUTER (International Soil Reference and Information Centre)

15:30-16:00 **Tea Break**

Session 4: New Perspectives of Soil Information Research (16:00 – 18:00)

Session Chair: Dar-Yuan LEE (Department of Agricultural Chemistry, National Taiwan University; President of Chinese Society of Soil and Fertilizer Sciences)

- 16:00-16:30** **Predicting and mapping soil properties using proximal / remote sensing**
 Zhou SHI (Institute of Agricultural Remote Sensing & Information Application, Zhejiang University)
- 16:30-17:00** **The soil – a producer of food and biofuels. Is this possible in the future?**
 Stephen NORTCLIFF (Soil Research Centre, Department of Geography and Environmental Sciences, School of Human and Environmental Sciences, University of Reading)
- 17:00-17:30** **Environmental policies and social impacts with regard to land and soil management**
 Winfried BLUM (University of Natural Resources and Applied Life Sciences (BOKU))
- 17:30-18:00** **Needs and options on how to organize international, interdisciplinary scientific advice to support the implementation of the aims of the UNCCD - Summary of an international scientific e.consultation**
 Mariam AKHTAR-SCHUSTER (University of Hamburg)
- 18:00-19:00** **Dinner**
- 19:30-21:00** **Chinese culture activities**

Day 4: Friday, February 10, Jiuhua Hotel

VIP Lounge, 1st Floor

Session 1: Launch of GSP's Asian Soil Science Network (08:30 – 12:00)

Session Chair: Ronald VARGAS (FAO Land and Water Division (NRL)) and Renfang SHEN (Institute of Soil Science, Chinese Academy of Sciences)

08:30-09:00 **Global Soil Partnership Asia Soil Science Network**

Ronald VARGAS (FAO Land and Water Division (NRL))

09:00-09:45 **Soil information available in Asia countries and regions**

Pakistan / Nepal / LAO / Myanmar ...who did not show in the sessions above:

Attar Khan JARWAR (Soil Survey of Punjab, Pakistan)

Yajna Gajadhar KHADKA (Soil Science Division, Nepal)

- 09:45-10:00** **Tea Break**
- 10:00-11:00** **Brainstorming about needs that the GSP should address in Asia**
- 11:00-12:00** **Discussion on achieving collaborative agreement for building Asian Soil Science Network**
- 12:00-14:00** **Lunch & Break**

Session 2: Launch of GSM East Asia Node (14:00 – 17:30)

Session Chair: Neil MCKENZIE (CSIRO Land and Water, Australia) and Suk-Young HONG (National Academy of Agricultural Science, RDA, Korea)

- 14:00-14:30** **GlobalSoilMap.net project Specification and More**
Neil MCKENZIE (CSIRO Land and Water, Australia)
- 14:30-15:00** **GlobalSoilMap.net East Asia Node: objectives, status and strategy**
Ganlin ZHANG (Institute of Soil Science, Chinese Academy of Sciences)
- 15:00-16:00** **Brainstorming about the development of digital soil mapping techniques in Asia countries and regions**
- 16:00-16:30** **Tea Break**
- 16:30-17:30** **Discussion on achieving node consortium agreement**
- 18:00-20:00** **Dinner**

Day 5: Saturday, February 11, Jiuhua Hotel

Parallel Session A: Building Asia Soil Information System (08:30 – 17:30)

VIP Lounge, 1st Floor

Participants: Asia countries and regions

- 08:30-09:00** **Introduction**
Ronald VARGAS (FAO Land and Water Division (NRL))
- 09:00-09:30** **Implementation strategy of the LoA**
Ganlin ZHANG (Institute of Soil Science, Chinese Academy of Sciences)

09:30-12:00 Discussion on status of soil information of Asia countries and regions, and the way forward for building regional soil information system

12:00-14:00 Lunch & Break

14:00-17:30 Continued discussion

Parallel Session B: Field or City Tour (08:30 – 17:30)

Participants: who are not involved in Asia Soil Information System

08:30-12:00 Field Tour for soil pits

14:00-17:30 City Tour

Contact Details

Administrative contact: (registration, invitation letter, flight information)

Dr. Ruijuan Sun

Institute of Soil Science, Chinese Academy of Sciences

71 East Beijing Road, Nanjing 210008, China

Telephone: +86-25-86881507, fax: +86-25-86881000

Email: rjsun@issas.ac.cn

Scientific contact: (abstract, scientific programme)

Dr. Feng Liu

Institute of Soil Science, Chinese Academy of Sciences

71 East Beijing Road, Nanjing 210008, China

Telephone: +86-25-86881276, fax: +86-25-86881000

Email: fliu@issas.ac.cn