VENUE

Vienna International Centre, Building M,
Wagramer Strasse 5, 1400, Vienna, Austria.

EXHIBITIONS

Limited space will be available for commercial vendors' displays and exhibits of scientific equipment and services at the venue. Interested parties should send an email to:

SWMCN-Symposium2012@iaea.org

SYMPOSIUM PROCEEDINGS

A programme and a book of extended synopses, with each synopsis limited to two A4 pages, will be distributed at the Symposium.

An edited Symposium Proceedings will be published and will include keynote, oral and poster presentations. Instructions for the preparation of manuscripts will be distributed upon notification of acceptance of the extended synopsis.

WORKING LANGUAGE

The symposium will be held in English.

SYMPOSIUM WEB PAGE

http://www-pub.iaea.org/iaeameetings/41176/International-Conference-on-Managing-Soils-for-Food-Security-and-Climate-Change-Adaptation-and-Mitigation

IAEA CONTACT PERSONS

Scientific matters and paper submission

Mr Minh-Long Nguyen
Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture
International Atomic Energy Agency
Vienna International Centre, PO Box 100
1400 Vienna, Austria
Telephone No.: (+43 1) 2600 21648
Email: SWMCN-Symposium2012@iaea.org

Participation and administrative matters

Ms Karen Morrison
Conference Services Section
Division of Conference and Document Services
IAEA-CN-191
International Atomic Energy Agency
Vienna International Centre, PO Box 100
1400 Vienna, Austria
Telephone No.: (+43 1) 2600 21317
Email: k.morrison@iaea.org

FAO CONTACT PERSON

Mr. Parviz Koohafkan
Director Land and Water Division
Food and Agriculture Organisation of the UN
Viale delle Terme di Caracalla
00153 Rome, Italy
Email: Parviz.Koohafkan@fao.org
GSP-Secretariat@fao.org
www.fao.org/globalsoilpartnership

12-18391

Photograph courtesy of Landcare Research, New Zealand

International Symposium on Managing Soils for Food Security and Climate Change Adaptation and Mitigation

23—27 July 2012
Vienna, Austria

FAO FIAT PANIS
IAEA
Joint FAO/IAEA Programme
Nuclear Techniques in Food and Agriculture

BACKGROUND AND OBJECTIVES

Significant advances have been made in recent years in our understanding of soil carbon sequestration, soil nutrient transformation as influenced by different fertilizers and cropping-land use systems, and the movement and storage of water in agro-ecosystems. Nuclear techniques have played a unique role in generating new knowledge and quantitative data on key processes in integrated crop and livestock systems. This new information is being used to improve farm management practices to increase productivity, on-farm and area-wide ecosystem service efficiency and to protect the soil resource from degradation. Hand-in-hand with these developments has been major advances in instrumentation and methodologies for measuring stable isotope tracers in real time in the field.

The objective of this International Symposium, the first to be held in this field at the IAEA since October 2000, is to communicate these exciting scientific and technological developments, to identify current gaps in knowledge and to discuss ways in which soils can be better managed to meet the challenge of protecting food security and enhancing agricultural sustainability through the dual approach of climate change adaptation and mitigation. The Symposium will also provide a forum to highlight important linkages between science and policy through the Global Soil Partnership initiative to enhance sustainable agriculture and ecosystem services of natural resources.

MAIN TOPICS

- Managing soils for increased productivity and ecosystem service efficiency
- Managing nutrient resources for increased use efficiency:
  - o External input management
  - o Internal recycling of crop residues and agricultural wastes
- Preserving and protecting soil resources:
  - o Assessment and control of soil degradation and nutrient losses
  - o Remediation and restoration of degraded soils
- Managing soils for climate change adaptation
- Managing soils for climate change mitigation:
  - o Enhancing carbon sequestration
  - o Reducing greenhouse gas emissions
- Applications of isotopic tracers for measuring nutrient and water dynamics
- Advances in the development of nuclear-based instrumental and analytical techniques
- Science and policy linkages for effective soil management: The Global Soil Partnership initiative

PROGRAMME STRUCTURE

- Opening statements
- Keynote speakers
- Contributed papers (oral and poster)
- Rapporteurs' reports, General Discussion and Conclusions

SCIENTIFIC COMMITTEE

M.S. Aulakh	India
W. Blum	Austria
P. Chalk	FAO/IAEA
E. Craswell	Australia
T. Friedrich	FAO
R. Lal	USA
Q. Liang	FAO/IAEA
L. Montanarella	European Commission (EC)
M. Nguyen	FAO/IAEA
S. Nortcliff	UK
N. Sanginga	Consultative Group on International Agricultural Research (CGIAR)
N. Senesi	Italy
J.C. Yang	China
P. Zdruli	Italy
Bin Zhang	China