



Food and Agriculture  
Organization of the  
United Nations



# AGENDA

GLOBAL SYMPOSIUM ON SOIL EROSION

15-17 MAY 2019 - ROME, ITALY



**itps**  
INTERGOVERNMENTAL  
TECHNICAL PANEL ON SOILS



Joint FAO/IAEA Programme  
Nuclear Techniques in Food and Agriculture

UNCCD **SPI** Science - Policy  
Interface

# GLOBAL SYMPOSIUM ON SOIL EROSION (GSER19)

## Co-organized by

**FAO** Food and Agriculture Organization of the United Nations

**GSP/ITPS** Global Soil Partnership / Intergovernmental Technical Panel on Soils

**SPI/UNCCD** Science-Policy Interface of the United Nations Convention to Combat Desertification

Joint **FAO/IAEA Programme** of Nuclear Techniques in Food and Agriculture

**15-17 May 2019**  
FAO Headquarters, Rome, Italy



# Summary agenda

15 MAY / DAY 1		
8:30-10:00	REGISTRATION	
10:00 -13:00	PLENARY SESSION	GREEN ROOM
LUNCH		
13:00-14:30	SIDE-EVENT (IAEA)	MALAYSIA ROOM (C227)
14:30-17:30	PLENARY SESSION	GREEN ROOM
17:30-20:00	EXHIBIT OPENING, POSTER SESSION AND COCKTAIL	ATRIUM
16 MAY / DAY 2		
8:45-13:00	TECHNICAL SESSIONS	
	THEME 1	GERMAN ROOM (C269)
	THEME 1	IRAQ ROOM (A235)
	THEME 2.1	LEBANON ROOM (D209)
	THEME 2.2	KING FAISAL ROOM (D263)
	THEME 3*	MALAYSIA ROOM (B227)
LUNCH		
13:00-14:30	SIDE-EVENT (UNCCD)	KING FAISAL ROOM (D263)
14:30-16:30	TECHNICAL SESSIONS	
	THEME 1	IRAQ ROOM (A235)
	THEME 1	LEBANON ROOM (D209)
	THEME 2.1	MALAYSIA ROOM (C227)
17:00-18:00	THEME 2.2	GERMAN ROOM (C269)
	THEME 1	IRAQ ROOM (A235)
18:00-19:00	THEME 2	GERMAN ROOM (C269)
	POSTER SESSION	ATRIUM
17 MAY/ DAY 3		
8:30-12:30	THEME 1	IRAQ ROOM (A235)
	THEME 2	KING FAISAL (D263)
	THEME 3	MALAYSIA ROOM (B227)
12:30-13:30	SIDE-EVENT (WUR)	KING FAISAL ROOM (D263)
14:30-17:20	PLENARY SESSION	GREEN ROOM

\* Technical and discussion session

# Wednesday 15<sup>th</sup> May | Green Room

Simultaneous interpretation in Arabic, Chinese, English, French, Russian and Spanish will be available  
Webcast will be available

08:30 10:00	REGISTRATION	
10:00 11:30	<p>OPENING OF THE SYMPOSIUM</p> <p>  Stop soil erosion, save our future! (Video animation)</p> <p>  <i>Mr. José Graziano Da Silva</i>, Director-General, FAO (video message)</p> <p>  <i>H.E. Enzo Benech</i>, Minister for Livestock, Agriculture and Fisheries of Uruguay</p> <p>  <i>Ms. Maria Helena Semedo</i>, Deputy Director-General, Climate and Natural Resources, FAO</p> <p>  <i>Mr. Kim Keong-Kyu</i>, Administrator of the Rural Development Administration, Republic of Korea</p> <p>  <i>Mr. Pradeep Monga</i>, Deputy Executive Secretary, UNCCD</p>	<p>Moderator</p> <p>Mr. René Castro Salazar FAO, Italy</p>
11:30 13:00	<p>KEYNOTE SPEAKERS   Setting the scientific scene for GSER19</p> <p>  Soil erosion in the Anthropocene: do we still need more research ? <i>Mr. Jean Poesen</i>, Catholic University of Leuven, Belgium</p> <p>  Assessment &amp; mapping soil erosion: Does it tell our story ? <i>Mr. Richard Cruse</i>, Iowa State University, United States of America</p> <p>  Decision supporting framework for soil erosion control and ecosystem services enhancement <i>Mr. Jae Yang</i>, Kangwon National University, Republic of Korea</p> <p>  Addressing soil erosion through policy and economic assessments <i>Ms. Lindsay Stringer</i>, University of Leeds, England</p>	
13:00 14:30	<p>SIDE EVENT   Soil erosion assessment: making a difference with isotopic techniques   MALAYSIA ROOM/C227</p> <p>Organized by the Joint FAO/IAEA Programme of Nuclear Techniques in Food and Agriculture, light refreshments</p>	
13:00 14:30	Lunch	





# Wednesday 15<sup>th</sup> May | Green Room

Simultaneous interpretation in Arabic, Chinese, English, French, Russian and Spanish will be available  
Webcast will be available

14:30 15:30	<b>INTRODUCTION TO GSER<sup>19</sup>   Perspectives on soil erosion</b> <b>  Soil erosion from the space</b> <i>Mr. Luca Parmitano</i> , Astronaut, European Space Agency (video message)  <b>  Testimony of soil erosion from the ground</b> <i>Mr. Alfred Grand</i> , Farmer, Austria  <b>  Facing soil erosion at ancient times</b> <i>Mr. Fernando Delgado</i> , Inter-American Center for Development and Environmental and Territorial Research (CIDIAT), Venezuela  <b>  Long-term changes due to wind erosion in arid zones</b> <i>Ms. Halima Slimani</i> , Université des Sciences et de la Technologie Houari Boumédiène, Algeria	<b>Moderator</b>  Mr. Eduardo Mansur FAO, Italy
15:30 16:45	<b>INVITED SPEAKERS   Introduction to the themes</b> <ul style="list-style-type: none"> <li>Theme 1 : Use of data and assessment tools in soil erosion control</li> </ul> <b>  Modelling post-fire soil erosion in recently burned areas</b> <i>Ms. Diana Vieira</i> , University of Aveiro, Portugal  <ul style="list-style-type: none"> <li>Theme 2 : Practices and Policy in action to address soil erosion</li> </ul> <b>  Impact of policies on soil erosion in the European Union</b> <i>Mr. Panos Panagos</i> , European Commission, Italy  <ul style="list-style-type: none"> <li>Theme 3 : The economics of soil erosion control and restoration of eroded land</li> </ul> <b>  Economic assessment of Soil erosion in Malawi</b> <i>Mr. Giacomo Pallante</i> , Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Italy	<b>Moderator</b>  Ms. Clara Lefèvre FAO, Italy
16:45 17:30	<b>INTRODUCTION TO THE TECHNICAL SESSIONS   Working documents</b> <b>  Theme 1 : Use of data and assessment tools in soil erosion control</b> <i>Mr. Pasquale Borrelli</i> , University of Basel, Switzerland  <b>  Theme 2: Practices and Policy in action to address soil erosion</b> <i>Ms. Lydia Chabala</i> , Intergovernmental Technical Panel on Soils, Zambia  <b>  Theme 3: The economics of soil erosion control and restoration of eroded land</b> <i>Mr. David Lobb</i> , Intergovernmental Technical Panel on Soils, Canada	<b>Moderator</b>  Ms. Lucrezia Caon, FAO, Italy
17:30 18:30	<b>Poster session and erosion exhibition (Atrium)</b> <i>Opening by Mr. Eduardo Mansur, FAO, Italy</i>	
18:30 20:00	<b>Cocktail (Atrium)</b>	

08:45  
10:30

## PARALLEL SESSIONS

### THEME 1 : USE OF DATA AND ASSESSMENT TOOLS IN SOIL EROSION CONTROL

#### GERMAN ROOM/C269

**Theme Chair: Mr. Richard Cruse (Iowa State University, USA)**

*Moderator: Ms. Costanza Calzolari (ITPS, Italy)*

| Badland and gully erosion assessment using remotely sensed data, non-invasive field techniques and stochastic modelling approaches

**Mr. Michael Maerker**, University of Pavia, Italy

| Resilience of red ferrallitic soils in the Karst regions of Mayabeque province, Cuba

**Mr. José M. Febles González**, University of Havana, Cuba

| Recalibration of a modified version of the WaTEM/SEDEM model for the assessment of soil erosion, sediment transport and the impact of soil erosion measures in Flanders

**Ms. Petra Deproost**, Government of Flanders, Belgium

| Soil erosion modelling tools for the use in Earth System models

**Ms. Victoria Naipal**, University of Munchen, Germany

| Interpretation of Land use and Soil Conservation Measures in the Pan -Third Pole area using Google Earth High Resolution Remotely Sensed Images

**Mr. Qinke Yang**, Northwest University, China

| An approach to prediction of ephemeral gully location and length in conditions of the Czech Republic

**Mr. Miroslav Dumbrovský**, Brno University of Technology, Czech Republic

| Measuring gullies and evaluating soil properties in a mountainous region of Rio de Janeiro State, Brazil

**Ms. Lúcia Helena Cunha dos Anjos**, UFRRJ, Brazil

#### IRAQ ROOM/A235

**Theme Chair: Mr. Nigussie Haregeweyn, Tottori University, Japan**

*Moderator: Mr. Jun Murase (ITPS)*

| Measuring rates of arable soil formation to better understand the severity of soil erosion

**Mr. Daniel Evans**, Lancaster University, UK

| Comparing erosion rates and processes after land use conversion from rainfed to irrigated crops in fragile areas with water scarcity

**Mr. Nicolaas Verschaeren**, Wageningen University & Research, Netherlands

| Using PAP/CAR model and GIS tools for mapping and study of water erosion processes in the Mediterranean environment: Case of the Asfalou watershed (Oriental Rif, Morocco)

**Mr. Abdellali Gourfi on behalf of Mr. Tahouri Jad**, Faculté des Sciences Dhar Mahraz, Morocco

| Calibration and validation of an USLE model to map soil erosion by water in the Sicilian Region (Italy)

**Ms. Maria Fantappiè**, Council for Agricultural Research and Economics, Italy

| Possibilities and precision of volumetric analyses of ephemeral gullies via UAV monitoring

**Mr. Josef Krasa**, Czech Technical University in Prague, Czech Republic

| Protocol for identifying and assess soil degradation by erosion in Colombia

**Mr. Fredy Neira**, IDEAM - UDCA, Colombia

| Updated map of human-induced soil erosion of Russia

**Mr. Igor Savin**, V.V. Dokuchaev Soil Science Institute, Russia

10:30  
11:00

COFFEE BREAK | Arbre de la vie/Atrium

## PARALLEL SESSIONS

### THEME 2 : PRACTICES AND POLICIES IN ACTION TO ADDRESS SOIL EROSION

SUB-THEME 2.1 :  
PRACTICES IN ACTION TO  
ADDRESS SOIL EROSION

LEBANON ROOM/D209

**Theme Chair: Mr. Gary Pierzynski (ITPS, USA)**

*Moderator : Ms. Ellen Graber (ITPS, Israel)*

| Zeolite effects on soil organic carbon and structure against erosion in vineyards

**Ms. Serena Doni**, Consiglio Nazionale delle Ricerche, Italy

| Effects of biochar on soil properties and erosion potential in a degraded sandy soil

**Mr. Taiwo Michael Agbede**, Rufus Giwa Polytechnic, Nigeria

| Soil and water conservation technics as a mechanism to adapt to the impacts of climate change in the Maule River Basin Chile

**Mr. Samuel Francke Campaña**, CONAF, Chile

| The potential of Goji Berry Tree to control soil erosion in Cameron Highlands, Malaysia

**Ms. Intan Nadhirah Masri**, MARDI, Malaysia

| A possible approach to control soil erosion: Natural farming

**Ms. Silvia Sociarelli**, CREA Italy

| Conservation practices to reduce soil erosion in hillsides cultivated with plantain (Musa AAB)

**Mr. William Andrés Cardona**, AGROSAVIA, Colombia

SUB-THEME 2.2:  
POLICIES IN ACTION TO ADDRESS SOIL EROSION

KING FAISAL ROOM/D263

**Theme Chair: Ms. Megan Balks (ITPS, New-Zealand)**

*Moderator: Mr. Ashok Patra (ITPS, India)*

| Building a solid foundation for erosion control: resilience-based stewardship in Burundi

**Mr. Aad Kessler**, Wageningen University & Research, Netherlands

| Reinforce water and climate co-benefits in actions to control soil erosion

**Mr. Lulu Zhang**, United Nations University, Germany

| Agricultural defense of Sao Paulo : twelve years of soil preservation and rehabilitation at the Rio de Peixe watershed, promoting conservation agriculture

**Mr. Oswaldo Julio Vischi Filho**, Secretariat of Agriculture of the State of São Paulo, Brazil

| Soil erosion policy in Switzerland

**Mr. Schwilch Gudrun**, Federal Office for the Environment, Switzerland

| The conceptual model for conservation of natural resources in forestry areas

**Mr. Mohammadreza Gharibreza**, Soil Conservation and Watershed Management Research Institute, Iran

| Challenges and opportunities : enabling effective soil erosion control through Land Degradation Neutrality

**Ms. Xiaoxia Jia**, UNCCD Secretariat, Germany

| Vulnerability assessment of soil erosion affected by climate change

**Mr. Kangho Jung**, National Institute of Agricultural Sciences, Republic of Korea

### THEME 3 :

THE ECONOMICS OF SOIL EROSION AND SOIL EROSION CONTROL

MALAYSIA ROOM/B227

**Theme Chair: Ms. Rosa Maria Poch (ITPS, Spain)**

*Moderator: Moderator: Mr. David Lobb (ITPS, USA)*

| Sustainability and production: analysis of a successful soil conservation strategy in the province of Entre Ríos, Argentina

**Mr. Alejandro E. Maggi**, University of Buenos Aires, Argentina

| Farmers' preferences for controlling soil erosion in Sicily

**Ms. Maria De Salvo**, University of Catania, Italy

| Economic evaluation of water erosion and Sustainable Land Management

**Mr. Abdellah Laouina**, Mohammed V University, Morocco

| Challenges and opportunities to scale up the application of sustainability guidelines and voluntary standards

**Mr. Simone Quatrini**, ETH Zurich, Switzerland

| The economics of soil erosion and benefits of sustainable land management in Asia and Africa

**Mr. Richard Thomas**, ICARDA, Canada

| Economic Analysis of Soil Erosion Control in New Zealand: Robust Identification of Benefits, Costs and Investment Priorities at the National Level

**Mr. Frank Scrimgeour**, University of Waikato, New Zealand

11:00  
13:00

## PARALLEL SESSIONS

### THEME 1

#### GERMAN ROOM/C269

**Theme Chair: Mr. Richard Cruse (Iowa State University, USA)**

*Moderator: Ms. Maria Konyushkova (ITPS, Russia)*

| Soil erosion assessment using RUSLE and Projection Augmented Landscape Model (PALM) as participatory tool in a mexican peasant community

**Mr. José María León Villalobos**, Centro de Investigación en Ciencias de Información Geoespacia (CentroGeo), Mexico

| How reliable are our methods for estimating soil erosion by water?

**Mr. Anthony J. Parsons**, University of Sheffield, UK

| Is an expert-based model able to map erosion in agricultural catchment?

**Mr. Vincent Cantreul**, University of Liège, Belgium

| Evaluating the "Soil stabilisation and control of erosion" ecosystem service provided by agricultural ecosystems over the French territory

**Ms. Isabelle Cousin**, INRA, France

| Integrated approach to conduct global soil erosion survey and assessment under FAO leadership

**Mr. Baoyuan Liu**, Northwest A&F University, China

| Assessment of soil erosion by R/USLE – A case study of the applications of R/USLE in the mining industry

**Mr. Ilse Snyman**, Golder Associates, South Africa

| Soil water holding capacity affected by erosion in olive orchards under semi-arid climatic conditions

**Ms. María José Marques**, Autonomous University of Madrid, Spain

#### IRAQ ROOM/A235

**Mr. Nigussie Haregeweyn (Tottori University, Japan)**

*Moderator: Mr. Nsalambi Vakanda Nkongolo (ITPS, Democratic Republic of the Congo)*

| Preliminary progress on global soil erosion assessment

**Mr. Rui Li**, Institute of Soil and Water Conservation, China

| Soil erosion in Russia: state, dynamics, and forecast

**Mr. German Kust**, Institute of Geography RAS, Russian Academy of Sciences, Russia

| A Survey of Soil Erosion in China of 2011

**Mr. Yun Xie**, Beijing Normal University, China

| National Assessment of Soil Erosion in Canada from 1971 to 2016

**Mr. David A. Lobb**, University of Manitoba, Canada

| National study of soil degradation by erosion in Colombia

**Mr. Fredy Neira**, IDEAM - UDCA, Colombia

| Assessment methods or tools in soil erosion control in the Pacific Island Countries and Territories

**Mr. Siosua Halavatau**, private soil consultant, Kingdom of Tonga

| Assessment of water and wind erosion risk over the Eastern Africa region

**Mr. Nigussie Haregeweyn**, Tottori University, Japan



## PARALLEL SESSIONS

THEME 2		THEME 3
LEBANON ROOM/D209	KING FAISAL ROOM/D263	MALAYSIA ROOM/ B227
<p>SUB-THEME 2.1</p> <p><b>Theme Chair: Mr. Gary Pierzynski (ITPS, USA)</b>  <i>Moderator: Mr. Mohammad Jamal Khan (ITPS, Pakistan)</i></p> <p>  How is soil erosion evaluated in the land capability systems used in Brazil ?  <b>Ms. Lúcia Helena Cunha dos Anjos</b>, UFRRJ, Brazil</p> <p>  Effectiveness Analysis of Best Management Practices by SWAT for Appropriate Control of Sediment Yield on the Catchment Scale in the North of Morocco  <b>Mr. Hamza Briak</b>, Faculty of Sciences and Techniques, Morocco</p> <p>  Role of biochar to counteract degradation in acid soils  <b>Ms. Mora-Lamilla Sofía</b>, University of La Salle, National Learning Service (SENA), Colombia</p> <p>  Assessing Soil Health Following the Adoption of Conservation Agriculture in East Africa  <b>Ms. Marla Riekman</b>, Manitoba Agriculture, Canada</p> <p>  Soil degradation and erosion processes under new extensive agro-industrial developments: causes and consequences  <b>Mr. Ildefonso Pla</b>, Universitat de Lleida, Spain</p> <p>  From Soil Erosion to Soil Accumulation: Recycling Urban Organic Waste to the Eroded Land in Sahel, West Africa  <b>Mr. Shuichi Oyama</b>, Kyoto University, Japan</p> <p>  Soil quality assessment by enzyme activities in an olive orchard subjected to living mulch to counteract soil erosion  <b>Ms. Paola Iovieno</b>, CREA-Centro di ricerca Orticoltura e Florovivaismo, Italy</p>	<p>SUB-THEME 2.2</p> <p><b>Theme Chair: Ms. Megan Balks (ITPS, New-Zealand)</b>  <i>Moderator: Mr. Matshwene Edwin Moshia III (ITPS, South Africa)</i></p> <p>  Soil conservation knowledge governance in Mexico  <b>Ms. Helena Cotler</b>, Centro de Investigación en Ciencias de Información Geoespacial, Mexico</p> <p>  Using the SedNetNZ model as a policy planning tool in the Hawke's Bay region of New Zealand  <b>Mr. Barry Lynch</b>, Hawke's Bay Regional Council, New Zealand</p> <p>  Reversing soil erosion trends at the river basin scale: A participatory model of intervention for building resilience in developing countries  <b>Mr. Alfredo del Valle</b>, Foundation for Participatory Innovation, Chile</p> <p>  15 years of experience with the use of detailed erosion maps in soil erosion policy in Flanders, Belgium  <b>Mr. Martien Swerts</b>, Government of Flanders, Belgium</p> <p>  Supporting Regionally Integrated Agro-Forestry practices in Mountain Regions to Prevent Erosion, comparing China-EU Cases  <b>Mr. Xiaoying Liu</b>, Natureherit Design &amp; Consult, Netherlands</p> <p>  National Plan participatory construction against Soil Erosion in Brazil  <b>Ms. Julia Franco Stuchi</b>, Embrapa, Brazil</p> <p>  Integrating data and assessment evidence across disciplines to co-design soil erosion solutions in degraded pastoral land  <b>Mr. William H. Blake</b>, University of Plymouth, UK</p>	<p><b>Theme Chair: Ms. Rosa Maria Poch (ITPS, Spain)</b>  <i>Moderator: Mr. Rafla Attia (ITPS, Tunisia)</i></p> <p>  A synergy between the biophysical and the economic: the global market impacts of soil erosion  <b>Ms. Martina Sartori</b>, Joint Research Centre (JRC), Spain</p> <p>  Mapping soil loss by water erosion in Argentina and analysis of its economic impact  <b>Mr. Juan J. Gaitán</b>, Centro de Investigación de Recursos Naturales (CIRN), Argentina</p> <p>  Economics of soil erosion in Ukraine  <b>Mr. Anatolii Kucher</b>, National Scientific Center "Institute for Soil Science and Agrochemistry Research named after O. N. Sokolovsky", Ukraine</p> <p>  Assessment of the Cost of Soil Erosion to Crop Production in Canada  <b>Mr. Nasem Badreldin</b>, University of Manitoba, Canada</p> <p>Theme discussion moderated by the Theme Chair</p>

**13:00** **14:30** SIDE EVENT | Assessing soil erosion to support land use planning and the achievement of SDG target 15.3 on Land Degradation Neutrality | KING FAISAL ROOM/D263 | Organized by the SPI-UNCCD , light refreshments

**13:00** **14:30** Lunch

## 14:30 16:30 PARALLEL SESSIONS

### THEME 1

#### IRAQ ROOM/A235

**Theme Chair: Mr. Richard Cruse (Iowa State University, USA)**

*Moderator: Mr. Siosua Halavatau (ITPS)*

| Spatio-temporal monitoring of soil erosion events

**Mr. Markus Möller**, Julius Kühn Institute (JKI),  
Institute for Strategies and Technology, Germany

| A large-scaled analysis on the spatial variability of soil parameters and its relation to soil erodibility and landscape characteristics in Southern Italy (Molise Region)

**Ms. Erika Di Iorio**, University of Molise, Italy

| Water erosion and the ENSO phenomenon over Penisetum chilense steppe of Puna region

**Mr. Alejandro E. Maggi**, University of Buenos Aires, Argentina

| Erosion model testing – are doing enough ?

**Mr. John Quinton**, Lancaster University, UK

| Long-term monitoring of sediment yield in typical agricultural watersheds of Navarre (Spain)

**Mr. Rafael Giménez**, Public University of Navarre, Spain

| Merging remote and in-situ land degradation indicators in soil erosion control system

**Ms. Tatiana Iliencko**, Institute of Agroecology and Environmental Management, Ukraine

| Factors controlling the spatial distribution of sediment yield and area-specific sediment yield on large scale: example of Morocco

**Mr. Abdelali Gourfi**, Cadi Ayyad University, Morocco

#### LEBANON ROOM/D209

**Theme Chair: Mr. Nigussie Haregeweyn, Tottori University, Japan**

*Moderator: Mr. German Kust (SPI-UNCCD)*

| Using fingerprint methods to implement effective strategies for management, sustainable use and conservation of the Brazilian Atlantic Forest ecosystems

**Mr. Renan Pereira Cardoso**, Universidade Federal Fluminense, Brazil

| Introduction of three nuclear techniques integrated in order to strengthen in the Latin American and Caribbean region, the strategies and programs of surveillance/monitoring of the sedimentation phenomenon in water reservoir superficial

**Mr. José Luis Peralta Vital**, Center of Radiation Protection and Hygiene, Cuba

| Quantifying erosion using <sup>137</sup>Cs in cultivated soil in the Sbaihia watershed-Zagouane, Tunisia

**Mr. Mansour Oueslati**, National Center for Nuclear Sciences and Technologies, Tunisia

| Estimation of Soil Erosion Deforestation-induced Using Nuclear Techniques (Case study: Golestan Province, Iran)

**Mr. Mohammadreza Gharibreza**, Soil Conservation and Watershed Management Research Institute, Iran

| Dynamic Erosion Model and Monitoring System (DEMIS)

**Mr. Mehmet Ali Akdag**, Ministry of Agriculture and Forestry, Turkey

| Simulation and evaluation of global sediment runoff and soil organic carbon removal by erosion in maize fields under varying field management

**Mr. Tony Carr**, University College London, UK

| Downscale LS derived from 1-arc SRTM in Global Soil Erosion Assessment

**Ms. Chunmei Wang**, Northwest University, China

**16:30** **17:00** COFFEE BREAK | Arbre de la vie/Atrium

**17:00** **18:00** Theme discussion moderated by the Theme Chair | IRAQ ROOM/A235

**18:00** **19:00** Poster session and erosion exhibition (Atrium)

## Lunch

### PARALLEL SESSIONS

#### THEME 2

##### MALAYSIA ROOM/B227

###### SUB-THEME 2.1

**Theme Chair: Mr. Gary Pierzynski (ITPS, USA)**  
**Moderator: Mr. Edmond Hien (ITPS)**

| Influence of mosses on soil hydraulic conductivity, penetration resistance and water repellency six years after a post-fire salvage logging treatment

**Ms. Minerva García-Carmona**, Universidad Miguel Hernández, Spain

| Use of perennial crop (Arundo Donax L.) in two degraded areas to control soil erosion and improve soil quality

**Mr. Donato Visconti**, University of Naples Federico II, Italy

| Long-term effectiveness of Sustainable Land Management practices to control runoff, soil erosion and nutrient loss in Mediterranean rainfed agroecosystems

**Mr. Victor Castillo**, Soil Erosion and Conservation Research Group, Spain

| Soil loss impacts on food security: a case study on LSLA in Mozambique

**Mr. Davide Danilo Chiarelli**, Politecnico di Milano, Italy

| Soil protection from erosion on the local level in Kharkiv region, Ukraine

**Mr. Valerii Koliada**, NSC "ISSAR named after Sokolovsky", Ukraine

| Environmental assessment of land management interventions (Atlantic Morocco)

**Ms. Nadia Machouri**, Mohammed V University, Morocco

##### GERMAN ROOM/C269

###### SUB-THEME 2.2

**Theme Chair: Ms. Megan Balks (ITPS, New-Zealand)**  
**Moderator: Ms. Lúcia Helena Cunha dos Anjos (ITPS)**

| An integrated approach to tackle soil erosion – insights from Burundi

**Mr. David Betge**, ZOA Deutschland, Germany

| Soil and water conservation policy evolution and its human-environment contexts in China since 1949

**Mr. Rui Li**, Institute of Soil and Water Conservation, China

| The evolution of soil conservation policies targeting land abandonment and soil erosion in Spain: A review

**Ms. Cynthia C.E. van Leeuwen**, University of Amsterdam, Netherlands

| The New Zealand Soil Erosion Control Experience 1919 to 2019: Lessons for Policy and Practice

**Mr. Frank Scrimgeour**, University of Waikato, New-Zealand

| Education for soil science conservation research with children from the Alto del Naranjo village in the municipality of Manizales Caldas – Colombia

**Ms. Carmen Soledad Morales Londoño**, University of Caldas, Colombia

| The Uruguayan Official Soil Conservation Policy and its Results

**Mr. Fernando García-Préchac**, Agriculture and Fishery of Uruguay (MGAP), Uruguay

| The impact of plans, policies, practices and technologies based on the principles of conservation agriculture for controlling soil erosion in Brazil

**Mr. Aluisio Granato de Andrade**, Embrapa, Brazil

## COFFEE BREAK | Arbre de la vie/Atrium

Theme discussion moderated by the Theme Chair | GERMAN ROOM/C269

Poster session and erosion exhibition (Atrium)

# Friday 17<sup>th</sup> May

08:30  
10:30

## PARALLEL SESSIONS

### THEME 1 | IRAQ ROOM/A235

Wrap up on the session and finalization of the working documents by the Theme Chairs

### THEME 2 | KING FAISAL/D263

Wrap up on the session and finalization of the working documents by the Theme Chairs

### THEME 3 | MALAYSIA ROOM/B227

Wrap up on the session and finalization of the working documents by the Theme Chair

10:30  
11:00

## COFFEE BREAK | Arbre de la vie/Atrium

11:00  
12:30

## PARALLEL SESSIONS

### THEME 1 | IRAQ ROOM/A235

Wrap up on the session and finalization of the working documents by the Theme Chairs

### THEME 2 | KING FAISAL/D263

Wrap up on the session and finalization of the working documents by the Theme Chairs

### THEME 3 | MALAYSIA ROOM/B227

Wrap up on the session and finalization of the working documents by the Theme Chair

12:30  
13:30

## SIDE EVENT | Combating erosion, mobilizing farmers | KING FAISAL ROOM/D263

*Organised by Wageningen University & Research, Netherlands*

12:30  
14:30

## Lunch

14:30  
15:15

## PLENARY SESSION | GREEN ROOM

### MAIN SESSION OUTCOMES AND KEY MESSAGES

#### | Theme 1: Use of data and assessment tools in soil erosion control

**Mr. Nigussie Haregeweyn** (Tottori University, Japan)

#### | Theme 2: Practices and Policy in action to address soil erosion

**Ms. Megan Balks** (Intergovernmental Technical Panel on Soils, New Zealand)

#### | Theme 3: The economics of soil erosion control and restoration of eroded land

**Ms. Rosa Poch** (Intergovernmental Technical Panel on Soils, Spain)

### Moderator

Ms. Generose Nziguheba,  
Intergovernmental Technical  
Panel on Soils, Burundi

15:15  
15:30

## VIDEO CONTEST AWARD

15:30  
16:30

## INTERACTIVE PANEL SESSION

16:30  
17:00

## CONCLUSIONS AND WAY FORWARD

**Mr. Ronald Vargas**, Global Soil Partnership Secretary, FAO

### Moderator

Mr. Ronald Vargas,  
FAO, Italy

17:00  
17:20

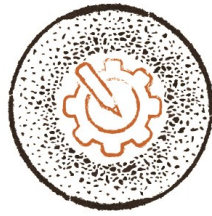
## CLOSURE OF THE SYMPOSIUM

**Mr. Eduardo Mansur**, Director Land and Water Division (CBL), FAO









## POSTER SESSION – THEME 1

| **An investigation of the relationship between flow characteristics and soil erosion indices**

*Mr. Hossein Asadi*, University of Tehran, Iran

| **Evaluation of soil erosion risk and identification of soil cover and management factor (C) for RUSLE in European vineyards with different soil management**

*Ms. M. Biddoccu*, National Research Council (CNR), Italy

| **Is an expert-based model able to map erosion in agricultural catchment?**

*Mr. Vincent Cantreuil*, Liège University, Belgium

| **Models erosion as methodical basis combating its manifestations in Ukraine**

*Mr. Y. M. Dmytruk*, Yuriy Fedkovych Chernivtsi National University, Ukraine

| **Soil erosion as a source of sediment and phosphorus in Vltava River basin**

*Mr. Tomas Dostal*, Czech Technical University in Prague, Czech Republic

| **Soil Erosion Risk in the Rainy Mountainous Area of Eastern Mediterranean**

*Hussam H. M. Husein*, General Commission for Scientific Agricultural Research, Syria

| **A contribution to the analysis of urban erosion (DRC)**

*Mr. A. Emery Murhula*, Cabinet d'expertise environnemental et social (CEE), Democratic Republic of the Congo

| **Comparison of RUSLE model and UAV-GIS methodology to assess the effectiveness of temporary ditches in reducing soil erosion**

*Mr. Ulderico Neri*, Council for Agricultural Research and Economics (CREA), Italy

| **(R)USLE factors obtained in standard plots: a critical analysis, opportunities and challenges related to the database in Brazil**

*Mr. Marx LN Silva*, Federal University of Lavras, Brazil

| **Application of the EUROSEM model in drainage basins in areas of the Valencian Community (Spain)**

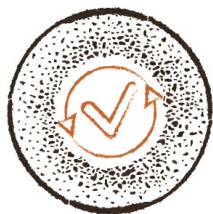
*Ms. MD Soriano*, UPV, Spain

| **Use of geochemical fingerprints to trace sediment sources in an agriculture catchment of Argentina**

*Mr. R. Torres Astorga*, IMASL, UNSL, Argentina

| **Rainfall Erosivity in China**

*Mr. Yun Xie*, Beijing Normal University, China



## POSTER SESSION – THEME 2

| **Termite footprints in restored versus degraded agrosystems in southwestern Niger**

**Mr. Abdourhimou Amadou**, Université Félix Houphouët Boigny, Ivory Coast

| **Soil carbon storage in Mediterranean forest stands: implications in the restoration of eroded soils**

**Mr. Giovanni Di Matteo**, Council for Agricultural Research and Economics, Italy

| **Assessing the effectiveness of Sustainable Land Management for large-scale climate change adaptation**

**Mr. Joris Eekhout**, Spanish Research Council, Spain

| **Using 'No-tillage' farming technique as an assessment tool in soil erosion control study on highly acidic soils formed from the volcanic origin, common in Micronesia**

**Mr. Mohammad H. Golabi**, University of Guam, USA

| **No-Till Effect On Soil Erosion In Mid-Slope Cropping Through Soil Aggregates Stability And Fallout Radionuclides**

**Mr. Iaaich Hamza**, National Institute of Agricultural Research (INRA), Morocco

| **Novel biotechnological methods of soil erosion control to achieve sustainable development goals: economic growth, food self-sufficiency, and clean water**

**Mr. Volodymyr Ivanov**, National University of Food Technologies, Ukraine

| **Conservation and Traditional Agriculture Impacts on Soil in the Peruvian's highlands**

**Ms. Ocaña Reyes J.A.**, CARE, Peru

| **Policy framework on soil erosion and land degradation from the post conflict perspective of Bosnia and Herzegovina**

**Ms. Marijana Kapović Solomun**, University of Banja Luka, Bosnia-Herzegovina

| **A Generic Policy and Implementation Model to Address Soil Erosion**

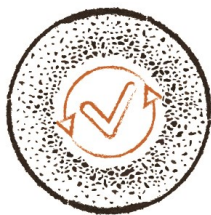
**Mr. Lal Manavado**, Norway

| **Western Balkan Countries vs. Mediterranean Region Policy on Soil Erosion**

**Ms. Adanela Musaraj**, European University Institute, Italy

| **Erosion-induced soil toxicity undermined maize-bean responses to sustainable land management practices on Mount Wanale in eastern Uganda**

**Mr. Giregon Olupot**, School of Agricultural Sciences Makerere University, Uganda



## POSTER SESSION – THEME 2 (CONTINUE)

### | Promoting the Adoption of Soil Conservation Practices in Manitoba

*Ms. Marla Riekman*, Manitoba Agriculture, Canada

### | Surface creep, saltation and suspension with large and medium aggregates: a wind tunnel experiment

*Mr. Eduardo A. Rienzi*, Cátedra de Manejo y Conservación de Suelos FAUBA, Argentina

### | Collective action in the face of the water crisis and desertification in the Atacama Desert

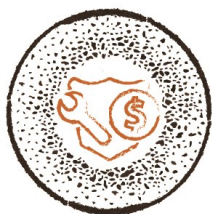
*Ms. Isabel Sepulveda Rivera*, the indigenous community of San Pedro de Atacama and of the Atacama Farmers Irrigation Association, Spain

### | A possible approach to control soil erosion: natural farming

*Ms. Silvia Socciarelli*, Council for Agricultural Research and Economics (CREA), Italy

### | Increasing soil chemical properties through the application of rock fines in tropical soils in west Cameroon, Africa

*Mr. Samuel Tetsopgang*, University of Bamenda, Cameroon



## POSTER SESSION – THEME 3

### | Assessing land consumption impact on ecosystem services provision: an insight on biophysical and economic dimension of loss of erosion control in Italy

*Ms. Francesca Assennato*, Institute for Environmental Protection and Research (ISPRA), Italy

### | 20 years of lessons learned with the application of economic-environmental incentives in national programs of erosion control in degraded soils Chile

*Mr. Samuel Francke-Campaña*, Ministry of Agriculture (CONAF), Chile

### | The Economics of Soil Erosion Control and Restoration of Eroded Land

*Mr. Simon G. Macharia*, Mkokoteni Aid Development Organization (Mado), Kenya





# Logistical information

## BUILDING PASS PICKUP

Make your way to the FAO Security Access Pavilion near the Circo Massimo Metro station. Present an ID to a FAO Security Officer.

## SECURITY

The FAO Security Office operates from 07.30-17.30 hours from Room B062 (extension 55159).

Participants are requested to wear their Building Passes at all times. Briefcases and valuables should not be left unattended.

## SERVICES AT FAO

Banking and Currency Exchange Facilities  
The building has two ATM's for cash withdrawal:

- Banca Intesa San Paolo: Ground floor, Building B. 08.35 to 16.35 hrs, Mon-Fri.
- Banca Popolare di Sondrio: Ground floor, Building D. 08.35 to 16.35 hrs, Mon-Fri.

## MEDICAL SERVICES

The Medical Service provides emergency medical assistance in the FAO premises. Dial 30 from any in-house telephone.

## WIFI COVERAGE

FAO offers free WiFi coverage in the main Meeting Rooms. To connect, please follow the below steps:

Step 1: Turn on device in WiFi areas

Step 2: Allow device to detect the network "guest\_internet"

Step 3: Open a browser to connect to the internet. The password is wifi2internet

No technical support can be provided if problems arise when connecting to, or using, the wireless internet service.

## CATERING FACILITIES

The FAO Cafeteria is on the eighth floor, Building B, it is open from 12.00-14.30 hours for lunch.

There are several snack bars on the premises:

Polish Bar (Ground Floor, Building A)

Blue Bar 'C' (Eighth Floor, Building C)

Eighth Floor Bar (Eighth Floor, Building B)

Bar D (Ground Floor, Building D)

## EMERGENCY TELEPHONE NUMBERS IN ROME

The following numbers may be useful in case of emergency:

- Medical Emergencies 118
- General Emergencies 112
- Fire 115
- Ambulance (Red Cross) 06-5510
- City Physician on Call 06-58201030

## TIME ZONES

Rome is GMT + 1 for details on time zones see: [www.timeanddate.com/worldclock/](http://www.timeanddate.com/worldclock/)

## ELECTRICITY SUPPLY

Italy has a 220 volts electricity supply, the sockets are 3 round pins in a row.



## FAO SERVICES



## GSER 19 MEETING ROOMS

### 3 FLOOR

21	PLENARY	A335 Int
22	CARIBBEAN	A335 bis
23	THAILAND	A382 bis
24	SUDAN	A381
25	CANADA	A357
26	INDIA	A327
27	QUEEN JULIANA	B324

### 2 FLOOR

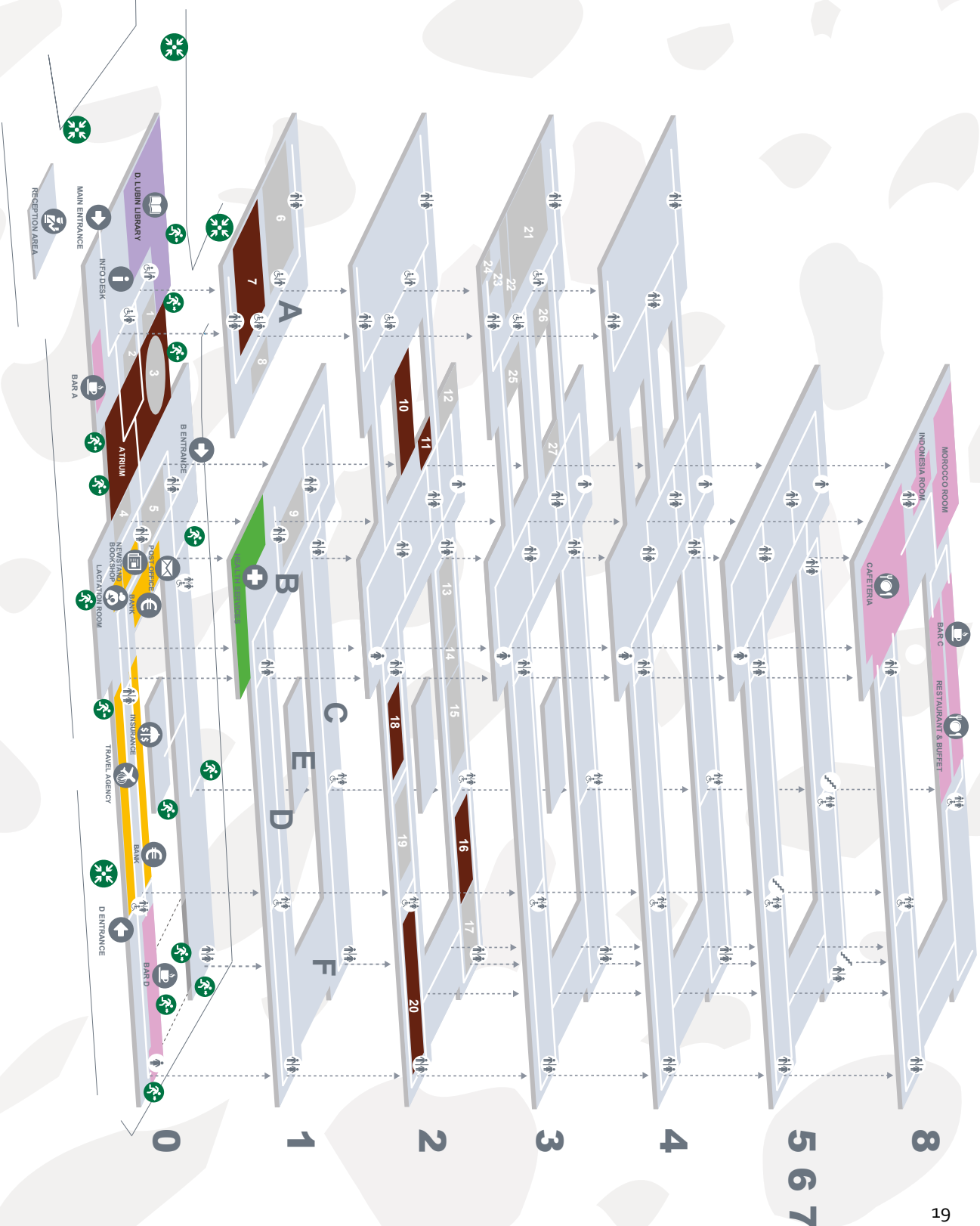
10	IRAQ	A235
11	MALAYSIA	B227
12	CUBA	B224
13	ETHIOPIA	C285
14	NIGERIA	C215
15	PHILIPPINE	C277
16	GERMAN	C269
17	AUSTRIA	C237
18	LEBANON	D209
19	MEXICO	D211
20	KING FAISAL	D263

### 1 FLOOR

6	RED	A121 Int
7	GREEN	A121 ter
8	PAKISTAN	A127
9	IRAN	B116 bis

### 0 FLOOR

1	U.E.M.O.A.	A018
2	GABON	A025
3	SHEIKH ZAYED	Atrium
4	SLOVAK	B013
5	FLAG	B018



# GLOBAL SYMPOSIUM ON SOIL EROSION

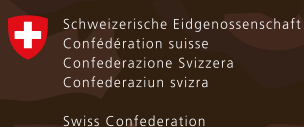
#StopSoilErosion

<http://www.fao.org/about/meetings/soil-erosion-symposium>



The Global Soil Partnership (GSP) is a globally recognized mechanism established in 2012. Our mission is to position soils in the Global Agenda through collective action. Our key objectives are to promote Sustainable Soil Management (SSM) and improve soil governance to guarantee healthy and productive soils, and support the provision of essential ecosystem services towards food security and improved nutrition, climate change adaptation and mitigation, and sustainable development.

## THANKS TO THE FINANCIAL SUPPORT OF



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