



Food and Agriculture
Organization of the
United Nations



LATSOLAN

LATIN AMERICAN SOIL LABORATORY NETWORK

Pathways to precision in soil analysis: advancing soil laboratories in Latin America and the Caribbean

Agenda



WORKSHOP | SANTIAGO - CHILLÁN | **CHILE** | 8-11 APRIL 2024



Day 1 Santiago de Chile – Ministry of Agriculture - Edificio Moneda Bicentenario <i>Hybrid session, interpretation available</i>		
Time	Item	Speakers
8:30 – 9:00 AM		Registration
9:00 – 9:40 AM	Opening and welcome remarks	Mr. Mario Lubetkin, Assistant Director-General, Regional Representative for Latin America and the Caribbean (video message) H.E. Esteban Valenzuela Van Treek, Minister of Agriculture – TBC Mr. José Guajardo, National Director of the Agriculture and Livestock Service – TBC Mr. Guillermo Wells, Dean of the Faculty of Agronomy of the University of Concepcion. Mr. Lifeng Li, Director of the Land and Water Division at FAO (virtually) Ms. Miriam Ostinelli, GLOSOLAN Steering Committee Ms. Sol Ortiz García, Chair of the Latin America and the Caribbean Soil Partnership (virtually)
9:40 – 9:50 AM	Endorsement of the agenda and group picture	Mr. Filippo Benedetti, GSP Secretariat
9:50 – 10:20 AM	Presentation of the FAO activities and projects in the region	Ms. Ana Posas Guevara, FAO Regional Office for Latin America and the Caribbean
10:20 – 10:45 AM	GSP ongoing laboratory projects and activities in the region	Ms. Carolina Olivera Sanchez, GSP Secretariat – Coordinator of the Latin American Soil Partnership (virtually)
10:45 – 11:00		Coffee break
11:00 – 11:45 AM	Updates from the Global Soil Partnership (GSP) and the Latin American and Caribbean Soil Partnership (LACS)	Mr. Yuxin Tong, Land and Water officer, GSP Secretariat (virtually) Ms. Sol Ortiz García, Chair of the Latin America and the Caribbean Soil Partnership
11:45 AM – 12:00 PM	Welcome from the Chilean Laboratory Network	Ms. Yasna Tapia, vice-Chair of the Chilean Soil Science Society
12:00 – 1:00 PM	Presentation of countries representatives	Representatives of the National Reference Laboratories in GLOSOLAN Moderator: Ms. Diana Maria Delgado Londoño, LATSOLAN vice-Chair
1:00 – 1:15 PM	Wrap up and closing remarks	María de los Ángeles Sepúlveda, President LATSOLAN and RENALASCH
1:15 – 2:00 PM		Lunch
2:30 – 8:00 PM	Bus transfer from Santiago de Chile to Chillán – Technical tour	Mr. Fabio Corradini, Chilean Soil Laboratory Network (RENALASCH)
Day 2 Chillán - Faculty of Agriculture of the University of Concepción (UDEC) <i>Hybrid session, interpretation available</i>		
9:00 – 9:30 AM	Welcome from the Regional Authorities	Mr. Jorge Romero, Representative of the Governor of Ñuble Region Mr. (TBC) Presidential Delegate Ñuble Region Mr. Pedro Rojas, Director of the Chillán Campus – University of Concepción Mr. Osvaldo Alcayaga, Regional Director of the Agriculture and Livestock Service (SAG)
9:30 – 10:15 AM	Updates from GLOSOLAN and LATSOLAN	Ms. Miriam Ostinelli, GLOSOLAN Steering Committee Ms. María de los Ángeles Sepúlveda, LATSOLAN Chair

10:15 – 10:45 AM	GLOSOLAN standard operating procedures (SOPs) and the joint working groups with the GSP international networks on salt affected soils (INSAS) and soil biodiversity (NETSOB)	Mr. Filippo Benedetti, GSP Secretariat
10:45 – 11:00 AM	Coffee break	
11:00 – 11:45 AM	Examples of National Soil Laboratory Networks (NASOLANs) established in the region: Chile, Mexico, CARSLAN (SOILCARE project)	Ms. Margarita Briceño, Steering Committee Chilean Soil Laboratory Network (RENALASCH) Mr. Armando Guerrero Peña, Mexican Soil Laboratory Network (MEXSOLAN) Mr. David Friedericks, National Agriculture Research and Extension Institute, Guyana
Coffee break		
11:45 AM – 1:00 PM	Lab tour at INIA	Mr. Juan Hirzel, INIA – Chile
1:00 – 2:00 PM	Lunch	
2:00 – 2:45 PM	Report of the LATSOLAN participation to the GLOSOLAN global PT and launch of the LATSOLAN PT 2024	Ms. María Cristina Suárez, Laboratorio de Suelos, Dominican Republic Mr. Filippo Benedetti, GSP Secretariat
2:45 – 3:00 PM	Coffee break	
3:00 – 4:30 PM	Quality control in the laboratory: calibration, preparation of internal reference material	Ms. Miriam Ostinelli, GLOSOLAN Steering Committee
4:30 – 6:00 PM	Soil meso- and macro-Fauna observation	Mr. George Brown, EMPBRAPA – Brazil
Day 3 – Plenary session I Chillán - Faculty of Agriculture of the University of Concepción (UDEC) <i>In-person session for the Latin American countries (Spanish language)</i>		
9:00 – 10:00 AM	Laboratory equipment calibration	Ms. Miriam Ostinelli, GLOSOLAN Steering Committee
10:00 – 10:45 AM	Health and safety in the laboratory	Mr. Daniel Carreira, INTA – Argentina
10:45 – 11:00 AM	Coffee break	
11:00 AM – 12:00 PM	Critical points in the determination of soil pH, electrical conductivity and soil organic carbon using GLOSOLAN SOPs	Ms. Diana Delgado, Dirección de Laboratorio e Innovación Ambiental - Colombia
12:00 – 1:00 PM	Visit to the spectroscopy laboratory	Mr. Leonardo Ramírez-López, GLOSOLAN trainer
1:00 – 2:00 PM	Lunch	
Day 3 – Parallel session I Chillán - Faculty of Agriculture of the University of Concepción (UDEC) <i>In-person session for the Latin American countries (Spanish language)</i>		
2:00 - 6:00 PM	Practical sessions in the laboratory (soil biology) using GLOSOLAN SOPs: <ul style="list-style-type: none"> • Microbial biomass • Respiration rate • Soil enzymes 	Mr. George Brown, EMPBRAPA – Brazil
3:30 – 3:45	Coffee break	

Day 3 – Parallel session II Chillán - Faculty of Agriculture of the University of Concepción (UDEC) <i>In-person session for the Latin American countries (Spanish language)</i>		
2:00 - 6:00 PM	Practical sessions in the laboratory (soil physics) using GLOSOLAN SOPs: <ul style="list-style-type: none"> • Soil bulk density • Soil texture • Water retention (pF) curve 	Mr. Marco Sandoval, UDEC – Chile Mr. Manuel Zapata, UDEC – Chile Ms. Diana Delgado, Dirección de Laboratorio e Innovación Ambiental - Colombia
7:30 PM	Group dinner and social gathering	
Day 4 – Parallel session III Chillán - Faculty of Agriculture of the University of Concepción (UDEC) <i>In-person session for the Latin American countries (Spanish language)</i>		
9:00 – 9:30 AM	GLOSOLAN initiative on spectroscopy (GLOSOLAN-Spec) and launch of the Spanish version of the primer on soil analysis using visible and near-infrared (vis-NIR) and mid-infrared (MIR) spectroscopy	Mr. Filippo Benedetti, GSP Secretariat
9:30 – 11:00 AM	Soil spectroscopy in the Latin American region: opportunities and challenges. Development of national spectral libraries and estimation services	Mr. Leonardo Ramírez-López, GLOSOLAN trainer
11:00 – 11:15 AM	Coffee break	
Day 4 – Plenary session II Chillán - Faculty of Agriculture of the University of Concepción (UDEC) <i>In-person session for the Latin American countries (Spanish language)</i>		
11:15 AM – 12:15 PM	Progress of visNIR soil spectral libraries and sample preparation for soil spectral measurement	Ms. Maria de los Ángeles Sepúlveda, UDEC – Chile Mr. Leonardo Ramírez-López, GLOSOLAN trainer
12:15 – 1:00 PM	Development of a national soil spectral library: the case of Chile	Mr. Erick Zagal, UDEC – Chile Mr. Leonardo Ramírez-López, GLOSOLAN trainer
1:00 – 2:00 PM	Lunch	
Day 4 – Plenary session III Chillán - Faculty of Agriculture of the University of Concepción (UDEC) <i>In-person session for the all participants</i>		
2:00 – 4:00 PM	Closing discussion and the role of the National Reference Laboratories	Mr. Filippo Benedetti, GSP Secretariat
4:00 – 5:00 PM	Closing ceremony and distribution of the certificates of participation	Ms. Miriam Ostinelli, GLOSOLAN Steering Committee Ms. Maria de los Ángeles Sepúlveda, UDEC - Chile

Parallel sessions for the Caribbean countries (English language)		
Day 3 Chillán - Faculty of Agriculture of the University of Concepción (UDEC)		
9:00 – 10:00 AM	Health and safety in the laboratory	Mr. Filippo Benedetti, GSP Secretariat
10:00 – 10:45 AM	Calibration of laboratory equipment	Mr. Daniel Vidal Perez, Brazil
10:45 – 11:00 AM	Coffee break	
11:00 AM – 1:00 PM	Laboratory management, samples preparation and storage	Ms. Miriam Ostinelli, GLOSOLAN Steering Committee
1:00 – 2:00 PM	Lunch	
2:00 – 6:00 PM	Determination of: Soil pH Electrical conductivity Soil organic carbon (Walkley and Black)	Mr. Jorge Etchevers, Mexico Ms. Miriam Ostinelli, GLOSOLAN Steering Committee
Day 4 Chillán - Faculty of Agriculture of the University of Concepción (UDEC)		
9:00 AM – 1:00 PM	Determination of: Texture (Hydrometer method) Bulk density Soil respiration rate	Ms. Miriam Ostinelli, GLOSOLAN Steering Committee Mr. Daniel Vidal Perez, Brazil



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.

Land and Water division - Natural Resources and Sustainable Production

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www.fao.org/global-soil-partnership

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