

SBEE2025

Soil Bio- and Eco-Engineering

30 de junio de 2025

CONFERENCE PROGRAM

**6th International Conference on
Soil Bio- and Eco-Engineering (SBEE25)**

8:00 h	Bus Hotel Mission
8:30 h – 9:00 h	Registration INECOL
9:00 h – 10:30 h	Workshop Modelling made easy: from basic measurements to slope reinforcement in one day. Z. Mao, G. Meijer, P. Sangalli
10:30 h – 11:00 h	Coffee break
11:00 h – 12:30 h	Workshop
12:30–13:30	Lunch Mall Bosques Briones
13:30 h – 14:45 h	Workshop
14:45 h–15:30	Break
15:30–17:00	Workshop
17:00	Back Hotel Mission



SBEE2025

Soil Bio- and Eco-Engineering

01 de julio de 2025

CONFERENCE PROGRAM

6th International Conference on
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8:00 h

Bus Hotel Mission

8:30 h – 13:30 h

Excursion

Xalapa-Coatepec-Xico-Teocelo-Barranca grande-Ixhuacan

13:30 h – 14:45 h

Box lunch

14:45h – 16:00 h

Museo del Café, El Cafe-tal Apa *

El Grande

16:00 h

Back Hotel Mission

*Depending on weather conditions

SBEE2025

Soil Bio- and Eco-Engineering

02 de julio de 2025

CONFERENCE PROGRAM

**6th International Conference on
Soil Bio- and Eco-Engineering (SBEE25)**

8:00 h	Bus Hotel Mission
8:30 h – 9:00 h	Registration USBI
9:00 h – 9:35 h	OPENING CEREMONY Morning session with simultaneous translation Spanish/English
9:35 h – 09:50 h	National Forestry Commission (CONAFOR)
9:50 h – 10:15 h	State Civil Protection Secretary (PC)
10:15–10:45	SOIL + WATER BIOENGINEERING SESSION KEYNOTE: P. SANGALLI Soil and Water Bioengineering, a Nature-based Discipline – Some European examples
10:45 h – 11:15 h	COFFEE BREAK+POSTERS
11:15 h–11:45	KEYNOTE : F. HOLANDA Performance of different geotextiles manufactured from tropical species fibers on soil erosion control.
11:45 h–12:15	KEYNOTE : A. COELHO NETTO Effects of fire on vegetation–soil interactions and implications for landslides: field studies in SE-Brazil.

SBEE2025

Soil Bio- and Eco-Engineering

02 de julio de 2025

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12:15 h – 12:35 h	Design of a device to measure the displacement of earth mass on Veracruz slopes. Gallardo del Angel et al.
12:35 h – 13:00 h	Slope stabilisation by bio- technical `net` M. Subic. Presentation of Slope Stability film by G. Subic.
13:00 h – 14:00 h	Luch Tlaqná Mezzanine
14:00 h – 14:30 h	SOIL AND WATER BIOENGINEERING SESSION KEYNOTE: A. OLLAURI Learning from (slope) failure: is vegetation the key to success for soil & water bioengineering interventions?
14:30 h – 14:50 h	Soil and water bioengineering techniques: ancestral Nature based Solutions meeting the challenges of the Anthropocene. Evette et al.
14:50 – 15:10	The Adaptability of Live Grating Structures for Applications in Slope Stability, Stream Bank Protection, and Habitat Enhancements in Canada. Raymond et al
15:10 h – 15:30 h	Mitigating soil erosion with vegetative barriers in Belgium's open agricultural landscapes. Frankl et al
15:30 h – 16:00 h	Flash talks in alphabetical order (poster authors can present their poster for 3 mins with one ppt slide).
16:00 h – 16:30 h	COFFEE BREAK+POSTERS
16:30h – 17:30 h	Flash talks in alphabetical order (poster authors can present their poster for 3 mins with one ppt slide).



SBEE2025

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17:30 h - 18:00 h

Poster session (Poster authors to stand next to posters please).

18:00 h - 20:00 h

ICE BREAKER PARTY

Tlaqná Mezzanine

20:00 h

Back Hotel Mission



SBEE2025

Soil Bio- and Eco-Engineering

03 de julio de 2025

CONFERENCE PROGRAM

**6th International Conference on
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8:00 h	Bus Hotel Mission
8:30 h – 9:00 h	Registration USBI
9:00 h – 9:35 h	MODELLING SLOPE STABILITY SESSION KEYNOTE: A. LEUNG Mechanics of rooted soils: latest advances.
9:30 h – 09:50 h	Centrifuge modelling of vegetated slopes under rainfall: incorporating tree weight and canopy interception. Sousa et al.
9:50 h – 10:10 h	Three-dimensional modelling of root-soil composite with fractal roots using homogenization theory. Huang et al.
10:10 h – 10:30 h	Pyrootmemo: unifying root reinforcement models. Meijer + Yildiz.
10:30 h – 11:00 h	COFFEE BREAK
11:00 h – 11:30 h	MASS MOVEMENTS AND VEGETATION SESSION KEYNOTE – K. SIERON Mass movements on volcanic slopes in Mexico.
11:30 h–11:50 h	Urban expansion, vegetation loss and landslide risks must be addressed to ensure the sustainability and safety of Xalapa, Veracruz, Mexico. De la Rosa et al.

SBEE2025

Soil Bio- and Eco-Engineering

03 de julio de 2025

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11:50 h – 12:10 h

A fundamental tool for reducing the risk of landslide disasters in Veracruz is the Inventory (1970–2024). Morales–Barrera et al.

12:10 h – 12:40 h

Considering the asymmetrical configuration of a landslide greatly shifts slope stability assessment. Yang et al.

12:40 h – 13:00 h

ONLINE: Impact of Wildfire on Soil Erosion in Mediterranean Pine Forest :
RUSLE Model and GIS-Based An.

13:00 h – 14:00 h

Luch
Tlaqná Mezzanine

14:00 h – 14:30 h

SOIL/WATER INTERFACE SESSION

A case history of coastal erosion protection using nature-based solutions in the Outer Hebrides. Mickovski et al.

14:30 h – 14:50 h

Soil and water bioengineering techniques: ancestral Nature based Solutions meeting the challenges of the Anthropocene. Evette et al.

14:30 – 14:50

An overview of Soil and Water Bioengineering as Nature Based Solution for erosion control in the tropics. Mira et al.

14:50 h – 15:10 h

Defining Nature-based Solutions for riverbanks stabilization using species distribution model with 2050 climate projections. Soto Vargas et al.

15:10 h – 15:30 h

ONLINE: Barriers and drivers to Soil and Water Bioengineering in Quebec. Moreau et al.

15:30 h – 16:00 h

ONLINE Quantifying the spatio-temporal mechanical reinforcement effects of the pioneer species *Betula pendula*: experiences from a case study in Western Norway. DiBiagio et al .

SBEE2025

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16:00 h – 16:30 h	COFFEE BREAK
16:30 h – 17:00 h	BIODIVERSITY AND SLOPE STABILITY SESSION KEYNOTE Making soil while the sun shines.
17:00 h – 17:20 h	Using plant-based eDNA for identifying the origins of sediment in two contrasting catchments: a lowland agricultural area and a high mountain environment characterized by semi-natural vegetation. Frankl/Stokes et al.
17:20 h – 17:40 h	Soil and Water Bioengineering (SWBE): Slope Stability Evolution and Multi-Taxon Diversity Monitoring in a Restored Shallow Landslide in Tuscany. Giachi et al.
17:40 h	Back Hotel Mission
20:00 h	Conference dinner

SBEE2025

Soil Bio- and Eco-Engineering

04 de julio de 2025

CONFERENCE PROGRAM

**6th International Conference on
Soil Bio- and Eco-Engineering (SBEE25)**

8:00 h	Bus Hotel Mission
8:30 h – 9:00 h	Registration USBI
9:00 h – 9:30 h	SOIL/WATER INTERFACE SESSION KEYNOTE M. ZHANG Improving Forest Hydrological Services Under a Changing Environment: Practices in China.
9:30 h – 09:50 h	The Strange Case of the Lower Murray Riverbank Failures at Long Island Marina: an example where riparian trees probably promoted rather than prevented bank failure. Zhu + Hubble.
9:50 h – 10:10 h	ONLINE: Willows root distribution on riverbanks: first hints from field measurements to model calibration for soil and water bioengineering design. Leblois et al.
10:10 h – 10:30 h	Assessment of scour depth in meandering rivers : towards improved design of soil and water bioengineering protection structures. Fructus et al.
10:30 h – 11:00 h	COFFEE BREAK
11:00 h – 11:20 h	SOIL + WATER BIOENGINEERING SESSION Integrating Vetiver-based Nature-based Solutions for Sustainable Slope Stability and Ecosystem Resilience. Bolea.
11:20 h – 11:40 h	Successes and Lessons Learned from 5 Years of Monitoring Riverbank Bioengineering Projects in Calgary. Gallant et al

SBEE2025

Soil Bio- and Eco-Engineering

04 de julio de 2025

CONFERENCE PROGRAM

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11:40 h – 12:00 h	ONLINE: Temporal Dynamics of Root Reinforcement in Bioengineering Measures: A Case Study of Grey Alder and Norway Spruce Succession. Schwarz et al.
12:00 h – 12:20 h	ONLINE: Meta-Analysis of Wooden Element Degradation in Live Crib Walls for Soil and Water Bioengineering Applications. Pini et al.
12:20 h – 12:40 h	ONLINE: The Effect of Live Pole Drains (LPDs) on Subsurface Lateral Drainage Performance: a lab-based approach. Berlitz et al.
12:40 h – 13:00 h	ONLINE: To be announced
13:00 h – 14:00 h	Luch Tlaqná Mezzanine
14:00 h – 14:20 h	METHODS FOR MEASURING SLOPE STABILITY SESSION Internal erosion resistance by plant roots and subsequent shearing. Tan et al.
14:20 h – 14:40 h	Spatial-temporal evolution of the root system architecture of vetiver grass – An attempt to quantify the dynamic root growth in three- dimensional space. Ragavan + Leung.
14:40 – 15:00	ONLINE: Exploring stress-paths and vegetation reinforcement mechanisms in a clayey sand. Fraccica et al.
15:00 h– 15:20 h	ONLINE: How do root mechanical traits at the yield point vary and why is it useful to estimate them? Sun et al.
15:20 h – 16:00 h	Round Table on root measurements and joint global project Can we trust root tensile trait data? A global initiative for testing reproducibility. Z. Mao.

SBEE2025

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16:00 h – 16:15 h

COFFEE BREAK

16:15 h – 17:00 h

Closing Remarks

Best young scientist talk and poster prizes.
Announcement of SBEE2029 venue .

17:40 h

Back Hotel Mission