

SBEE2025 _ Conference Program



Monday 30/6	Tuesday 1/7	Wednesday 2/7	Thursday 3/7	Friday 4/7
Bus Hotel Mission 8.00	Bus Hotel Mission 8.00	Bus Hotel Mission 8.00	8.00 Bus Hotel Mission	8.00 Bus Hotel Mission
Registration 8.30		Registration 8.30		
WORKSHOP at Instituto de Ecología A.C. (INECOL) Modelling made easy: from basic measurements to slope reinforcement in one day Z. Mao, G. Meijer, P. Sangalli 17.00 Bus to hotel	Excursion Xalapa - Coatepec - Xico - Teocelo - Barranca grande - Ixhuacan	9.00 OPENING CEREMONY <i>Morning session with simultaneous translation Spanish/English</i> Chair: A. Stokes Presentation words - master of ceremonies security protocol - audio Presentation of the presidium Welcome remarks - Dr. Carlos Welsh CCT-UV SBEE2025 - Dr. Alexia Stokes - INRAE Welcome remarks and opening ceremony - Dr. Martin Aguilar Sánchez- UV Rector Words of thanks and farewell from the presidium - Master of Ceremonies 9.35 CONAFOR 9.50 State Civil Protection Secretary (SPCE) SOIL + WATER BIOENGINEERING SESSION 10.15 KEYNOTE: P. SANGALLI Bioingeniería del Paisaje, Una Disciplina Basada en la Naturaleza - Algunos ejemplos europeos (Soil and Water Bioengineering, a Nature-based Discipline - Some European examples)	MODELLING SLOPE STABILITY SESSION Chair: S.B. Mickovski 9.00 KEYNOTE: A. LEUNG Mechanics of rooted soils: latest advances. 9.30 Centrifuge modelling of vegetated slopes under rainfall: incorporating tree weight and canopy interception. Sousa et al 9.50 Three-dimensional modelling of root-soil composite with fractal roots using homogenization theory. Huang et al 10.10 pyrootmemo: unifying root reinforcement models. Meijer + Yildiz	SOIL/WATER INTERFACE SESSION Chair: P. Raymond 9.00 KEYNOTE: M. ZHANG Improving Forest Hydrological Services Under a Changing Environment: Practices in China 9.30 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 ONLINE Considering the asymmetrical configuration of a landslide greatly shifts slope stability assessment. Yang et al ONLINE 10.10 Willows root distribution on riverbanks: first hints from field measurements to model calibration for soil and water bioengineering design. Leblois et al

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		10.45 Coffee break + posters	10.30 Coffee break + posters	10.30 Coffee break + posters
		Chair: G. Angeles 11.15 KEYNOTE : F. HOLANDA Desempeño de diferentes geotextiles fabricados a partir de fibras de especies tropicales en el control de la erosión del suelo (Performance of different geotextiles manufactured from tropical species fibers on soil erosion control) 11.45 KEYNOTE : A. COELHO NETTO Efectos del fuego en las interacciones vegetación-suelo e implicaciones para deslizamientos de tierra : estudios en el sureste de Brasil. (Effects of fire on vegetation-soil interactions and implications for landslides: field studies in SE-Brazil) 12.15 Design of a device to measure the displacement of earth mass on Veracruz slopes. Gallardo del Angel et al 12.35 Slope stabilisation by bio-technical `net` M. Subic. Presentation of Slope Stability film by G. Subic.	MASS MOVEMENTS AND VEGETATION SESSION Chair: L. Pogosyan 11.00 KEYNOTE - K. SIERON Mass movements on volcanic slopes in Mexico. 11.30 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 11.50 A fundamental tool for reducing the risk of landslide disasters in Veracruz is the Inventory (1970-2024). Morales-Barrera et al. 12.10 ONLINE - Temporal Dynamics of Root Reinforcement in Bioengineering Measures: A Case Study of Grey Alder and Norway Spruce Succession. Schwarz et al 12.40 ONLINE: Impact of Wildfire on Soil Erosion in Mediterranean Pine Forest : RUSLE Model and GIS-Based Analysis Assessment. Prosseda et al	11.00 SOIL + WATER BIOENGINEERING SESSION Chair: A. Evette 11.00 Integrating Vetiver-based Nature-based Solutions for Sustainable Slope Stability and Ecosystem Resilience. Bolea 11.20 Successes and Lessons Learned from 5 Years of Monitoring Riverbank Bioengineering Projects in Calgary. Gallant et al 11.40 Performance of natural fiber geocomposites as a sustainable technology in Brazil. Holanda 12.00 ONLINE Meta-Analysis of Wooden Element Degradation in Live Crib Walls for Soil and Water Bioengineering Applications. Pini et al 12.20 ONLINE The Effect of Live Pole Drains (LPDs) on Subsurface Lateral Drainage Performance: a lab-based approach. Berlitz et al 12.40 ONLINE Assessment of scour depth in meandering rivers: towards improved design of soil and water bioengineering protection structures. Fructus et al

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		<p>13.00 Lunch</p> <p>14.00 SOIL AND WATER BIOENGINEERING SESSION Chair: M.E.N. Bringas</p> <p>KEYNOTE: A. OLLAURI Learning from (slope) failure: is vegetation the key to success for soil & water bioengineering interventions?</p> <p>14.30 Soil and water bioengineering techniques: ancestral Nature based Solutions meeting the challenges of the Anthropocene. Evette et al</p> <p>14.50 The Adaptability of Live Grating Structures for Applications in Slope Stability, Stream Bank Protection, and Habitat Enhancements in Canada. Raymond et al</p> <p>15.10 Mitigating soil erosion with vegetative barriers in Belgium's open agricultural landscapes. Frankl et al</p> <p>15.30 Inventory of mass removal processes for the state of Veracruz. Meneses</p>	<p>13.00 Lunch</p> <p>14.00 SOIL/WATER INTERFACE SESSION Chair: A. Frankl</p> <p>14.00 A case history of coastal erosion protection using nature-based solutions in the Outer Hebrides. Mickovski et al</p> <p>14.30 An overview of Soil and Water Bioengineering as Nature Based Solution for erosion control in the tropics. Mira et al</p> <p>14.50 Defining Nature-based Solutions for riverbanks stabilization using species distribution model with 2050 climate projections. Soto Vargas et al</p> <p>15.10 ONLINE - Barriers and drivers to Soil and Water Bioengineering in Quebec. Moreau et al</p> <p>15.30 ONLINE Quantifying the spatio-temporal mechanical reinforcement effects of the pioneer species <i>Betula pendula</i>: experiences from a case study in Western Norway. DiBiagio et al</p>	<p>13.00 Lunch</p> <p>14.00 METHODS FOR MEASURING SLOPE STABILITY SESSION Chair: G. Meijer</p> <p>14.00 Internal erosion resistance by plant roots and subsequent shearing. Tan et al</p> <p>14.20 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</p> <p>14.40 ONLINE Exploring stress-paths and vegetation reinforcement mechanisms in a clayey sand. Fraccica et al</p> <p>15.00 ONLINE How do root mechanical traits at the yield point vary and why is it useful to estimate them? Sun et al</p> <p>15.20 Round Table on root measurements and joint global project Can we trust root tensile trait data? A global initiative for testing reproducibility. Z. Mao</p>
		<p>16.00 Coffee break + posters</p> <p>Chair – A. Stokes 16.30 Flash talks in alphabetical order (poster authors can present their poster</p>	<p>16.00 Coffee break + posters</p> <p>16.30 BIODIVERSITY AND SLOPE STABILITY SESSION Chair: I. Barois</p>	<p>16.00 Coffee break + posters</p> <p>16.15 Closing Remarks</p>

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		<p>for 3 mins with one ppt slide. Please send slides to contact@sb2025.com and sbee2025mexico@gmail.com before 30/6/2025)</p> <p>17.30 to 18.00 Poster session (Poster authors to stand next to posters please)</p> <p>18.00 Ice Breaker Party Performance by professors from the arts departments of the University of Veracruz and a regional cultural event led by the Xalapa Tourism Department.</p>	<p>KEYNOTE – A. Stokes Making soil while the sun shines.</p> <p>17.00 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</p> <p>17.20 Soil and Water Bioengineering (SWBE): Slope Stability Evolution and Multi-Taxon Diversity Monitoring in a Restored Shallow Landslide in Tuscany. Giachi et al</p> <p>17.40 Bus to hotel</p>	<p>Best young scientist talk and poster prizes</p> <p>Announcement of SBEE2029 venue</p> <p>17.00 Bus to hotel</p>
			20.00 Leave hotel Mission to go to Conference dinner	