



PanAm-UNSAT 2017

Dallas, Texas, USA | November 12–15, 2017

2nd Pan American Conference on Unsaturated Soils

PROGRAM OVERVIEW

A number of activities are envisioned for the Pan Am-UNSAT 2017 program, including:

- Workshops and short courses
- Keynotes/State-of-the-Art/State-of-the-Practice lectures
- Multi-session Symposium honoring Professor Del Fredlund
- Technical sessions
- Panel discussions
- Posters
- Exhibitors
- Social and networking opportunities
- Student program

This is the perfect opportunity to expand your technical knowledge of unsaturated soils in the dynamic Dallas-Fort Worth metropolplex, Texas.



Dallas Convention and Visitors Bureau / Matt Pasant

About the Conference

On behalf of the Unsaturated Soils Committee of the Geo-Institute (G-I) of the American Society of Civil Engineers (ASCE), and the TC 106 committee on Unsaturated Soils of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE), you are cordially invited to attend Pan-Am-UNSAT 2017: The Second Pan-American Conference on Unsaturated Soils, which will be held November 12–15, 2017.

Pan-Am-UNSAT 2017 builds upon the continuing success of Pan-Am-UNSAT 2013 (First Pan-American Conference on Unsaturated Soils, Cartagena, Colombia, 2013); UNSAT 2006 (Fourth International Conference on Unsaturated Soils, Carefree, Arizona, 2006); and the seminal EXPANSIVE'92 (Seventh International Conference on Expansive Soils, Dallas, Texas, 1992).

Pan-Am-UNSAT 2017 will follow this series of successful regional and international conferences on Unsaturated Soils, bringing together researchers, practitioners, students and policy makers from around the world, particularly the Americas, to share the latest advances, engineering applications, and pedagogical approaches in the unsaturated soil mechanics discipline.

Pan-Am-UNSAT 2017 will feature the latest research advances and engineering-practice innovations with a focus on characterization, modeling, design, construction, and field performance. The conference will include a wide range of knowledge-enhancing technical sessions, short courses, and workshops. Around 250 U.S. and international participants from academia, industry, and government agencies are expected to attend the conference.

Intercontinental Dallas Hotel | Dallas, Texas, USA

Conference Committees

CONFERENCE PROGRAM COMMITTEE

- **Conference Chair:** Laureano R. Hoyos, University of Texas at Arlington
- **Conference Co-Chair:** John S. McCartney, University of California, San Diego
- **Technical Program Chair:** Sandra L. Houston, Arizona State University
- **Technical Program Co-Chair:** William J. Likos, University of Wisconsin, Madison
- **Local Chair:** Marcelo Sanchez, Texas A&M University
- **Local Chair:** Gerald A. Miller, University of Oklahoma
- **Sponsorship & Exhibits Chair:** Anand J. Puppala, University of Texas at Arlington
- **Logistics Manager:** Majid Ghayoomi, University of New Hampshire
- **Conference Program Specialist:** Helen Cook (hcook@asce.org), Geo-Institute/ASCE

Technical Advisory Committee

- Sai Vanapalli, University of Ottawa, Canada
- Greg Siemens, Royal Military College, Canada
- Kanthasamy (Muralee) Muraleetharan, University of Oklahoma, USA
- Xiong Zhang, University of Cincinnati, USA
- Ning Lu, Colorado School of Mines, USA
- Claudia Zapata, Arizona State University, USA
- Jorge Zornberg, University of Texas at Austin, USA
- Jorge Abraham Diaz-Rodriguez, UNAM, Mexico
- Bernardo Caicedo, Universidad de Los Andes, Bogotá, Colombia
- Julio E. Colmenares, Universidad Nacional, Bogotá, Colombia
- Orencio Villar, University of São Paulo, São Carlos, Brazil
- Tacio de Campos, PUC-Rio, Brazil
- Fernando Marinho, University of São Paulo, Brazil
- Manoel Porfírio Cordão Neto, Universidade de Brasília, Brazil
- Diego Manzanal, University of Buenos Aires, Argentina
- Alejo Sfriso, University of Buenos Aires, Argentina

International Technical Committee

- David Toll, University of Durham, UK
- Adrian Russell, University of New South Wales, Australia
- Eduardo Alonso, UPC, Barcelona, Spain
- Antonio Gens, UPC, Barcelona, Spain
- Lyesse Laloui, EFP Lausanne, Switzerland
- J. Carlos Santamarina, KAUST, Saudi Arabia
- Charles Ng, HKUST, Hong Kong

QUESTIONS? CONTACT:

Regarding the technical program

- Sandra L. Houston (sandra.houston@asu.edu), Arizona State University
- William J. Likos (likos@wisc.edu), University of Wisconsin, Madison

For other general inquiries

- Laureano R. Hoyos (lhoyos@uta.edu), University of Texas at Arlington
- John S. McCartney (mccartney@eng.ucsd.edu), University of California San Diego

CONFERENCE PUBLICATIONS

- All submitted technical papers will be peer-reviewed and published as a **Geotechnical Special Publication** (GSP). Papers published in the GSP are indexed in Civil Engineering Database, Google Scholar, and others.
- Papers submitted for special sessions and the workshops may be considered for separate special GSPs focusing on specific topics, or for special issues of selected journals.

Call for Proposals: Short Courses and Workshops

The PanAm-UNSAT 2017 Program Committee is currently soliciting proposals for short courses and workshops that fit within the scope of the conference.

Conference Technical Topics

- Stress State Quantification
- Experimental Laboratory and In-Situ Testing
- Case Histories
- Unsaturated Rock Behavior
- Unsaturated Permafrost Behavior
- Fundamentals
 - ✓ Flow Processes
 - ✓ Shear Strength
 - ✓ Stiffness and Dynamic Response
 - ✓ Volume Change
- Numerical and Constitutive Modeling in Geotechnical and Geoenvironmental Applications
 - ✓ Expansive soils
 - ✓ Collapsible soils
 - ✓ Slope stability
 - ✓ Landfills
 - ✓ Pavements
 - ✓ Foundations
- Energy Geotechnics
- Sustainability

YOU ARE INVITED

... to submit a one-page proposal for a short course or workshop on any of the broad technical topics listed above. Proposals without all requested details (below) may not be considered:

- Title
- Description of the short course or workshop geared for potential attendees (<150 words)
- Organizer(s), with full contact information
- Technical scope and justification on how the short course/workshop fits into the conference themes
- Plans for soliciting participants and potential contributors
- E-mail this information before **May 10, 2016** to the Pan-Am-UNSAT 2017 Program Committee at: geo-institute@asce.org. In the **subject line**, please include the phrase: **“Pan-Am-UNSAT 2017 Proposal.”**

Decisions on the proposals will be made and communicated by May 31, 2016.

DEADLINES

- Short Course and Workshop Proposals Due:May 10, 2016
- Short Course and Workshop Proposals Decisions Complete:May 31, 2016
- Abstract Submittal Begins: June 18, 2016
- Abstracts Due:September 17, 2016
- Abstract Decisions Complete:November 12, 2016
- Draft Papers Due: January 14, 2017
- Draft Paper Decisions Complete:March 22, 2017
- Final Papers Due:April 26, 2017
- Final Paper Decisions Complete: June 14, 2017
- Presenting authors must register for conference, or papers will be pulled from Proceedings: July 26, 2017

Conference Program Schedule

(Subject to Change)

Date / Time	Activity
Sunday, November 12, 2017	
8:00 a.m. – 5:00 p.m.	Short Courses and Workshops
6:00 – 8:00 p.m.	Welcome Reception
Monday, November 13, 2017	
8:30 – 10:30 a.m.	Welcome / Keynote Lectures
10:30 – 11:00 a.m.	Break
11:00 a.m. – 12:30 p.m.	Parallel Technical Sessions-I
12:30 – 2:00 p.m.	Lunch / Posters
2:00 – 3:30 p.m.	Parallel Technical Sessions-II / Symposium in Honor of Professor Del Fredlund, Part I
3:30 – 4:00 p.m.	Break
4:00 – 5:30 p.m.	Parallel Technical Sessions-III / Symposium in Honor of Professor Del Fredlund, Part II
6:30 - 9:30 pm	Social Event to be determined
Tuesday, November 14, 2017	
9:00 – 10:30 a.m.	State-of-the-Art/State-of-the-Practice Lectures
10:30 – 11:00 a.m.	Break
11:00 a.m. – 12:30 p.m.	Parallel Technical Sessions-IV
12:30 – 2:00 p.m.	Lunch / Posters
2:00 – 3:30 p.m.	Parallel Technical Sessions-V
3:30 – 4:00 p.m.	Break
4:00 – 5:30 p.m.	Parallel Technical Sessions-VI
6:30 - 9:30 pm	Social Event to be determined
Wednesday, November 15, 2017	
9:00 – 10:30 a.m.	State-of-the-Art/State-of-the-Practice Lectures
10:30 – 11:00 a.m.	Break
11:00 a.m. – 12:30 p.m.	Parallel Technical Sessions-VII
12:30 – 2:00 p.m.	Lunch / Posters
2:00 – 3:30 p.m.	Parallel Technical Sessions-VIII
3:30 – 4:00 p.m.	Break
4:00 – 5:30 p.m.	Parallel Technical Sessions-IX