



under the auspices of the TC-106 “Unsaturated Soils” of the ISSMGE

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International Doctoral School on  
**Unsaturated Soil Mechanics**  
4 - 7 April 2017  
Ecole Polytechnique Fédérale de Lausanne, Switzerland  
*organized by*  
Prof. Alessio Ferrari and Alessandro Tarantino

**DRAFT 09/12/2016**

<i>Tuesday 4<sup>th</sup> April 2017</i>		
<b>Registration and welcome</b>		
8.15 - 9.10	Registration	
9.10 - 9.20	Welcome to EPFL	Lyesse Laloui
9.20 - 9.30	Introduction to the school	Alessio Ferrari Alessandro Tarantino
9.30 - 9.40	Presentation of the TC 106	David Toll
<b>PART 1: Introductory concepts to unsaturated soils</b>		
9.40 - 10.55	Basic concepts on unsaturated soils	Alessandro Tarantino
10.55 - 11.10	<i>Short break</i>	
11.10 - 12.25	Mechanical behaviour of unsaturated soils	Simon Wheeler
12.25 - 14.00	<i>Lunch</i>	
14.00 - 15.15	Hydraulic behaviour of unsaturated soils	David Toll
15.15 - 15.30	<i>Short break</i>	
<b>PART 2: Constitutive modelling of unsaturated soils</b>		
15.30 - 16.45	Effective stress concept for unsaturated soils	Lyesse Laloui

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<i>Wednesday 5<sup>th</sup> April 2017</i>		
<b>PART 2: Constitutive modelling of unsaturated soils – cont.</b>		
8.30 - 9.45	Constitutive Modelling I	Simon Wheeler
9.45 - 10.00	<i>Short break</i>	
10.00 - 11.15	Constitutive Modelling II	Domenico Gallipoli
11.15 - 11.30	<i>Short break</i>	
<b>PART 3: Experimental techniques</b>		
11.30 - 12.45	Experimental techniques I	Alessio Ferrari
12.45 - 14.00	<i>Lunch</i>	
14.00 - 15.15	Experimental techniques II	Giacomo Russo
15.15 - 15.30	<i>Short break</i>	
15.30 - 16.45	Experimental techniques III	Enrique Romero
<b>PART 4: EPFL Laboratory of Soil Mechanics</b>		
17.00 - 18.00	Visit of the EPFL Laboratory of Soil Mechanics	Alessio Ferrari
<b>Social event</b>		
19.30 - 22.00	Social event	

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<i>Thursday 6<sup>th</sup> April 2017</i>		
<b>PART 4: Engineering applications</b>		
8.30 - 9.40	THM problems	Lorenzo Sanavia
9.40 - 9.50	<i>Short break</i>	
9.50 - 11.00	Engineered barriers	Tom Schanz
11.00 - 11.10	<i>Short break</i>	
11.10 - 12.20	Slope stability	Marianna Pirone
12.20 - 14.00	<i>Lunch</i>	
14.00 - 15.10	Flood embankments	Cristina Jommi
15.10 - 15.20	<i>Short break</i>	
15.20 - 16.30	Soil-atmosphere interaction in embankments	Yu Jun Cui

<i>Friday 7<sup>th</sup> April 2017</i>		
<b>Visit of the Mont Terri Underground Research Laboratory</b>		
7.15 - 9.30	Meeting and trip to Mont Terri by bus	
9.30 - 12.00	Visit to the Mont Terri Laboratory	
12.00 - 14.00	<i>Lunch</i>	
14.00 - 16.30	Return to Lausanne by bus	