



From modelling towards better prediction in geotechnics

Winter School

22 – 27 January 2017
Congressi Stefano Franscini CSF
Monte Verità, Ascona, Switzerland

Invited by Professor Sarah M. Springman

Venue

Hotel and Congress Centre Monte Verità
Strada Collina 84
6612 Ascona
Switzerland
Phone: Tel. +41 91 785 40 40
Fax +41 91 785 40 50
info@monteverita.org
www.monteverita.org

Directions :

<http://www.monteverita.org/en/41/contact-and-directions.aspx>

<http://www.geotechnics.ethz.ch/en/news-and-events/events/winterschool-monte-verita/directions.html>

Buses

Sunday, 22 January 2017

Last public bus leaving Locarno, Piazza Stazione, to Ascona **with direct connection** to Monte Verità: **17.38**

Arrival at Locarno main station after 17.50 (departure of last shuttle): Bus no. 1 to Ascona (bus stop Ascona Posta), then by taxi to Monte Verità

Shuttle

Shuttle leaving **Locarno, Piazza Stazione, at:**

13.30 / 14.10 / 14.50 / 15.30 / 16.10 / 17.50

The shuttle will be running for 4 hours in a row (approx. 6 single runs, every 40minutes), max. 11 people/run.
(Please consult our website for any changes: <http://www.geotechnics.ethz.ch/en/>)

From modelling towards better prediction in geotechnics

Host: Professor Sarah M. Springman
ETH Zurich, Institute for Geotechnical Engineering

Monday to Friday

In parallel

06.30-08.15 **Breakfast**

07.00-07.45 **Yoga or Pilates**
Ruth Oliver
Please wear gym gear!

Balint Room

07.45-08.15 **Meditation**
Ruth Oliver
Please wear comfortable, loose clothing!

Balint Room

Please note that on **Wednesday** the Yoga/Pilates and Meditation sessions start 15 mins earlier.

Technical management of presentations

Ralf Herzog, Damoun Taeseri, Alex Marin, Daisy Lucas

Please make sure you hand over your presentations to a member of this team on the evening before your session.

Sunday, 22 January 2017

15.00 **Check-in**

16.00-19.00 **Registration**

17.00-18.00 **Yoga / Meditation**
Ruth Oliver

Balint Room

18.15 **Welcome Address**
Chiara Cometta, Congressi Stefano Francini
Lorenzo Sonognini, Fondazione Monte Verità
Sarah Springman, ETH Zurich

Auditorium

18.30 **Welcome Drink**

19.00 **Dinner**

Monday, 23 January 2017

		Room
08.30	Field Experiments: Unde venis? Quo vadis? Cristina Jommi Chairs: Jan Laue, Pierre André Mayor	Auditorium
09.30	Discussion	
10.00	<i>Coffee break</i>	
10.30	6 Presentations – 10 mins & 10 mins discussion / 3 - 5 slides Pose a key question you would like to have discussed / answered in the afternoon session Theme: Field and Centrifuge Experiments Chair: Malcolm Bolton	Auditorium
	Study of the seasonal response of a scree slope in the Swiss Alps Daisy Lucas (ETH Zurich)	
	Structural Stability of Reinforced Road Embankments in the Arctic Corridor Earl de Guzman (University of Manitoba, Winnipeg)	
	Effects of tunnelling under an existing tunnel in clay Chang Ye Gue (University of Cambridge)	
	Large-scale testing of foundations for offshore wind turbines Aligi Foglia (Fraunhofer IWES, Hannover)	
	Landslide generated tsunamis Gemma Bullard (Queen's University, Kingston)	
	Micro-Mechanics of a crushable granular material Giulia Guida (Niccolò Cusano University, Rome)	
12.30	<i>Lunch</i>	
14.00	Discussion session 1 - Field and Centrifuge experiments Small group interaction (roughly 7 per group, 6 groups): Focus on discussing and solving the burning question posed by presenters in the morning session Chairs: Lukas Arenson, Ferney Morales, André Arnold	Balint Room Group 1 – 2
	Solve the key question allocated to your group Discuss any of the other questions that interest you	Eranos Room Group 3
		Pioda Room Group 4
16.30	<i>Break</i>	Mandala Room Group 5
17.00-18.00	Feedback session Plenum 1-2 people per group to present answers to the questions posed, 5-10 minutes per group, general discussion... Chairs: Lukas Arenson, Ferney Morales, André Arnold	Van der Heydt Group 6
		Plenum Auditorium
19.00	<i>Dinner</i>	
20.30	Small group interaction on health and lifestyle (voluntary) Ruth Oliver	Balint Room

Tuesday, 24 January 2017

		Room
8.30	Laboratory Experiments: Unde venis? Quo vadis? Andy Take Chair: David Muir Wood	Auditorium
09.30	Discussion	
10.00	<i>Coffee break</i>	
10.30	6 Presentations – 10 mins & 10 mins discussion / 3 - 5 slides Pose a key question you would like to have discussed / answered in the afternoon session Theme: Laboratory Experiments Chair: Ioannis Anastasopoulos	Auditorium
	Using a triaxial permeameter to assess internal erosion of susceptible soils Fahed Gaber (University of Sheffield)	
	Deviatoric behaviour of peats: some experimental observations Stefano Muraro (Delft University of Technology)	
	Realistic scaling of plant root systems for centrifuge modelling of root-reinforced slopes Teng Liang (University of Dundee)	
	The effect of dynamic loads on the behaviour of non-engineered mudrock backfill materials Shaymaa Kennedy (University of Sheffield)	
	Centrifuge modelling of arching in granular soils and the behaviour of geosynthetic-reinforced soils above voids Talia da Silva (University of Cambridge)	
	Internal mechanics of collisional granular flows in dry and saturated conditions Devis Gollin (University of Sheffield)	
12.30	<i>Lunch</i>	
14.00	Discussion session 2 - Laboratory Experiments Small group interaction (6 groups): Focus on discussing and solving the burning question posed by presenters in the morning session Chairs: Suzanne Lacasse, Jürgen Grabe, Francesca Casini	Balint Room Group 1 – 2
	Solve the key question allocated to your group Discuss any of the other questions that interest you	Eranos Room Group 3
		Pioda Room Group 4
16.00	<i>Break</i>	Mandala Room Group 5
16.30-18.00	Feedback session Plenum 1-2 people per group to present answers to the questions posed, 5-10 minutes per group, general discussion.... Chairs: Suzanne Lacasse, Jürgen Grabe, Francesca Casini	Van der Heydt Group 6
		Plenum Auditorium
19.00	<i>Dinner</i>	
20.30	Music If you have any (small) musical instruments, please bring them!	
	Small group interaction on health and lifestyle (voluntary) Ruth Oliver	Balint Room

Wednesday, 25 January 2017

8.30	Personal Development: The Triumvirate for Human Success – Self-Awareness, Intelligence and Leadership Mark Oliver	Room Balint Room
10.00	<i>Coffee break</i>	
10.30	Personal Development: continued Mark Oliver	Balint Room
12.30	<i>Lunch</i>	
13.45	Excursion Castles of Bellinzona	

Visit to the castles *Castelgrande* (UNESCO) and to the old town

Bellinzona is a partly fortified medieval town, known for its 3 castles, which belong to UNESCO's cultural heritage since 2000. Particularly attractive is the Castelgrande, which was renovated in 1984-1991 by one of the most famous architects in Ticino, Aurelio Galfetti. The castle can be reached in a few minutes from town, either by elevator or on foot.

Free time for coffee and shopping

Dinner at the *Osteria Nostrana*
Piazza G. Motta, Ascona
Phone +41(0)91 791 51 58

Please wear warm clothing with plenty of layers and comfortable walking shoes, so you can adjust to being inside, outside, or dining! We will travel from one location to the next without returning to Monte Verità.

Programme (approx. timetable)

1.45 pm Departure by bus from Monte Verità
2.30 pm Arrival in Bellinzona
2.45 pm Visit of the castles, Castelgrande (UNESCO) and of the old town
4.45 pm Free time for coffee and shopping
6.00 pm Departure by bus from Bellinzona to the restaurant
6.45 pm Arrival in Ascona
7.00 pm Dinner at Osteria Nostrana in Ascona
9.30 pm Return by bus to Monte Verità

Transfer By bus, on foot through the castles and the centre of town

Thursday, 26 January 2017

		Room
8.30	Numerical Experiments: Unde venis? Quo vadis? Francesca Casini Chair: Lis Bowman	Auditorium
09.30	Discussion	
10.00	<i>Coffee break</i>	
10.30	6 Presentations – 10 mins & 10 mins discussion / 3 - 5 slides Pose a key question you would like to have discussed / answered in the afternoon session Theme: Numerical Experiments Chair: Andy Take	Auditorium
	Static liquefaction of granular slopes Liam Steers (Queen's University, Kingston)	
	Tailings (mine waste) and tailings dam behavior Roger Knutsson (Lulea University of Technology)	
	Modelling of cyclic stress-strain behaviour of soft sensitive clays considering both static and dynamic soil structure interaction Amardeep Amavasai (Chalmers University of Technology, Gothenburg)	
	Modelling weather-driven deterioration of cut slopes in overconsolidated clay; capturing seasonal ratcheting and progressive failure Harry Postill (Loughborough University)	
	Dynamic pile test of a monopile in water saturated soil Evelyn Heins (Hamburg University of Technology)	
	Inverse analysis of laterally loaded piles subjected to large cyclic loading: Development of a Bouc-Wen Type Soil Reaction Model Konstantinos Kassas (ETH Zurich)	
12.30	<i>Lunch</i>	
14.00	Discussion session 3 - Numerical Experiments Small group interaction (6 groups): Focus on discussing and solving the burning question posed by presenters in the morning session Chairs: Ashraf El-Hamalawi, Ivo Herle, Minna Karstunen	Balint Room Group 1 – 2
	Solve the key question allocated to your group Discuss any of the other questions that interest you	Eranos Room Group 3
		Pioda Room Group 4
16.00	<i>Break</i>	Mandala Room Group 5
16.30-18.00	Feedback session Plenum 1-2 people per group to present answers to the questions posed, 5-10 minutes per group, general discussion.... Chairs: Ashraf El-Hamalawi, Ivo Herle, Minna Karstunen	Van der Heydt Group 6
		Plenum Auditorium
19.00	<i>Dinner</i>	
20.30	Entertainment (up to you!) - Group interaction (voluntary) Anyone Sarah Springman or with Ruth and Mark Oliver	Balint Room/ further rooms

Friday, 27 January 2017

		Room
8.30	Prediction : Unde venis? Quo vadis? Malcolm Bolton Chair: Cristina Jommi	Auditorium
09.30	Discussion	
10.00	<i>Coffee break</i>	
10.30	4 Presentations – 15 mins & 10 mins discussion / 5 - 10 slides Slightly longer presentations – free choice! Theme: Prediction Chair: Sarah Springman	Auditorium
	Debris flow simulation using computational fluid dynamics (CFD) with non-Newtonian rheology Petter Fornes (Norwegian University of Science and Technology, Oslo)	
	From progressive to catastrophic failure in planar submarine landslides Wangcheng Zhang (University of Western Australia, Perth)	
	Numerical simulation and back-analysis of deep excavations in London Clay through case histories; design Ying Chen (University of Cambridge)	
	Strain-dependent slope stability Kornelia Nitzsche (Dresden University of Technology)	
	Closing remarks	
12.30	<i>Lunch</i>	
14.00	Trains	
	Fly – Goodbye!	

Shuttle to Locarno: to be announced at Monte Verità

Contact (Pre-conference)

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Directions

www.monteverita.org (Conference hotel)

www.sbb.ch (trains Switzerland)

www.ticino.ch/en/ (Ticino Tourism)