

**7<sup>th</sup>**



**ICGSM**

INTERNATIONAL **C**OURSE  
ON **G**EOTECHNICAL  
AND **S**TRUCTURAL **M**ONITORING

## SCHEDULE

**14-15-16 June 2021 – Main Course**

**21-22 June 2021 – Field Trip**

**June-December 2021 – Master Classes**



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ON GEOTECHNICAL  
AND STRUCTURAL MONITORING



organized by **NHAZCA**  
NATURAL HAZARDS CONTROL AND ASSESSMENT

**JUNE 14 - 16, 2021 MAIN COURSE**  
**JUNE 21 - 22, 2021 FIELD TRIP**  
**JUNE - DECEMBER, 2021 MASTER CLASSES**



## Main Course 14-15-16 June 2021

### June 14th

COURSE TOPIC	TIME (CET)	SPEAKER
<b>Welcome and Introduction</b>	14:00-14:15	Paolo Mazzanti
<b>Overview on Geotechnical and Structural Monitoring</b>	14:15-15:00	Paolo Mazzanti & Giorgio Pezzetti
<b>Why Monitoring and Design?</b>	15:00-15:40	Allen Marr
<b>Professional Training in GSM: The legacy of John Dunnycliff</b>	15:40-16:10	Tony Simmonds
<b>Break 16:10-16:30</b>		
<b>Case Histories and Lessons Learned</b> <ul style="list-style-type: none"> <li>• Structural health and geotechnical monitoring for offshore wind</li> <li>• Line C – The comparison between the design predictions and the experimental data acquired by the monitoring system installed on the monuments of the historical center of Rome during TBM excavation</li> </ul>	16:30-17:30	<b>Moderator: Tony Simmonds</b>  Per Sparrevik  Eliano Romani
<b>Panel discussion: Geotechnical and Structural Monitoring in Academia</b>	17:30-18:15	Paolo Mazzanti Giorgio Pezzetti Gianpiero Russo Werner Lienhart
<b>Opening of virtual booth 18:15-20:00</b>		

### June 15th

COURSE TOPIC	TIME (CET)	SPEAKER
<b>Opening of virtual booth and participation access 09:00-14:00</b>		
<b>The importance of geotechnical and structural monitoring for railway assets management</b>	14:00-14:30	Andrea Pigorini & Andrea Nardinocchi
<b>Landslide monitoring along transportation networks</b>	14:30-15:00	Jean Hutchinson
<b>Break 15:00-15:30</b>		
<b>Case Histories and Lessons Learned</b> <ul style="list-style-type: none"> <li>• Dam surveillance: A look back into the past and the way forward</li> </ul>	15:30-17:30	<b>Moderator: Giorgio Pezzetti</b>



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- Piezometer and inclinometer measurements during a bearing capacity test of a diaphragm wall
- Monitoring deep excavations in urban areas. Case studies and lessons learnt
- Distributed Temperature Sensing for erosion detection, sand dune migration monitoring and DoC estimation: the Peru LNG experience in Ayacucho and Ica departments

**Panel discussion: Geotechnical and Structural Monitoring for Insurance**

17:30-18:15

Louis Hattingh & Manuel Gomez de Membrillera Ortuño

Leen De Vos

Gianpiero Russo

Fabien Ravet

Paolo Mazzanti  
Giorgio Pezzetti  
Daniele Ortelli  
Allen Marr

**Opening of virtual booth 18:15-20:00**

## June 16th

### COURSE TOPIC

### TIME (CET)

### SPEAKER

**Opening of virtual booth and participation access 09:00-14:00**

**Eight common sense rules for successful monitoring**

14:00-14:30

Martin Beth

**New Trend (First part)**

14:30-15:30

**Moderator: Paolo Mazzanti**

- Argo: the innovative platform for infrastructures monitoring
- The Observational Method Made Easy

Lorenzo Rossi & David Buggiani

Javier G. Martí

**Break 15:30-16:00**

**New Trend (Second part)**

16:00-17:00

**Moderator: Paolo Mazzanti**

- Fiber Optics: beyond data for seismological monitoring
- New Trends in Dynamic Monitoring and Computing for Intelligent Infrastructure Systems
- Artificial Intelligence for Structural Asset Management

Davide Calonico

Thomas Matarazzo

Matteo Vagnoli

**Monitoring for performance based design**

17:00-17:30

Kenichi Soga

**Panel discussion: Market size of Geotechnical and Structural Monitoring**

17:30-18:15

Paolo Mazzanti  
Giorgio Pezzetti  
Marco Rettighieri  
Martin Beth

**Opening of virtual booth 18:15-20:00**



## Field Trip 21-22 June 2021

## Master Classes on Geotechnical and Structural Monitoring June-December 2021

### June 2021

Event	Period	Time (CET)	Leader
Master Class on Terrestrial Radar Interferometry	24 June 2021	14.00 – 18.00	Paolo Mazzanti and Saverio Romeo

### July 2021

Event	Period	Time (CET)	Leader
Master Class on Inclinator	13 July 2021	14.00 – 18.00	Giorgio Pezzetti
Master Class on Terrestrial Laser Scanner	20 July 2021	14.00 – 18.00	Jean Hutchinson, David Bonneau and Paul-Mark Difrancesco

### August 2021

Event	Period	Time (CET)	Leader
Master Class on Global Positioning System	3 August 2021	14.00 – 18.00	Francesco Mancini
Master Class on Load Cells and Strain Gauges	26 August 2021	14.00 – 18.00	Helmut Bock and Holger Woersching

### September 2021

Event	Period	Time (CET)	Leader
Master Class on Piezometer	2 September 2021	14.00 – 18.00	Giorgio Pezzetti and Georgette Hlepas
Master Class on Total Station	28 September 2021	14.00 – 18.00	Werner Lienhart



## October 2021

Event	Period	Time (CET)	Leader
Master Class on Extensometer	6 October 2021	14.00 – 18.00	Daniel Naterop
Master Class on Vibration Monitoring	21 October 2021	14.00 – 18.00	Erol Kalkan
Master Class on Settlement Systems	28 October 2021	14.00 – 18.00	Pierre Choquet

## November 2021

Event	Period	Time (CET)	Leader
Master Class on Web based Data Acquisition and Management	11 November 2021	14.00 – 18.00	Andrea Zattoni and Flavia Ciferri
Master Class on Satellite Interferometry	23 November 2021	14.00 – 18.00	Paolo Mazzanti

## December 2021

Event	Period	Time (CET)	Leader
Master Class on Optical Fibers	2 December 2021	14.00 – 18.00	Branko Glisic and Daniele Inaudi
Master Class on Photomonitoring	16 December 2021	14.00 – 18.00	Andrea Manconi and Serena Moretto

# ICGSM PARTNERS



# SUPPORTERS



# MASTER CLASSES SPONSORS



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