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# Sustainable and Innovative Approaches for Environmental Safety

11-13 July, 2022

## Tbilisi Summer School



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UNIVERSITÀ  
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INTERNATIONAL SCIENTIFIC  
EDUCATIONAL CENTER



**11 July 2022**

The University of Georgia

### Welcome and registration

- 10:00 Greetings, Nicolò Merendino and Angela Fattoretti
- 10:10 Greetings, UG Rector
- 10:20 Greetings, ILIA Uni

### Session 1

- 11:00 Microbial water quality of recreational and drinking water reservoirs  
Prof. Marina Tediashvili, Assoc. Prof. Nino Janelidze, UG
- 12:00 Water resources, water quality research methodology  
Assoc. Prof. Tamar Supatashvili, UG
- 13:00 Lunch Break

### Session 2

- 14:30 Elaboration of non-waste and ecologically safe technology of amortized lead storage batteries  
Assoc. Prof. Lili Arabuli, UG
- 15:30 Measuring devices used in environmental sciences  
Prof. Avto Tavkhelidze - ILIA Uni
- 16:30 Coffee Break

### Session 3

- 17:00 In situ measurement techniques for trace gas fluxes in terrestrial ecosystems  
Dr. Gabriele Guidolotti (online) - CNR
- 18:00 Hyperspectral remote sensing for vegetation and soil monitoring: opportunities from new generation spaceborne sensors  
Prof. Raffaele Casa - UNITUS

### Discussion and Closing Remarks

**12 July 2022**

The University of Georgia

### Session 4

- 10:00 Recycling of technogenic and anthropogenic plastic wastes  
Assoc. Prof. Lili Arabuli, UG
- 11:00 From monitoring data to radiation dose assessment of the population  
Prof. Fernando Carvalho CTN/IST
- 11:00 Isotope ratio mass spectrometry (IRMS); Basic principles and applications  
Assoc. Prof. Ketevan Lomsadze, UG
- 13:00 Lunch Break

### Session 5

- 14:30 GIS technology for environmental monitoring  
Prof. Sergo Tsiramua, Dr. Giorgi Tsiramua, UG
- 15:30 Spatial and spatio-temporal environmental modeling: equipping your open-source toolbox  
Dr. Marco Ciolfi, CNR

16:30 Coffee Break

### **Session 6**

17:00 Soil quality: from chemical indicators to biodiversity;  
Dr. Sara Di Lonardo, CNR

18:00 Environmental sensors and data management  
Prof. David Chkhaidze, ILIA Uni

### **Discussion and Closing Remarks**

**13 July 2022**

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### **Session 7**

14:30 Final Test

**17:30 Closing Remarks and Social event**