



UNIVERSITÀ
DEGLI STUDI
DI BERGAMO

Dipartimento
di Ingegneria
e Scienze Applicate

Blended Intensive Program (BIP) | 7-11 September 2026

Structural Health Monitoring (SHM) Across Disciplines

2nd Edition - From Heritage to Innovation: Exploring the Future of Structural Health Monitoring

Sant'Agostino Campus, University of Bergamo | p.le Sant'Agostino 2, Bergamo

DAY 1 | 7 SEPTEMBER | 9.00-17.30

- 9.00 **Welcome**
- 10.30 Coffee break
- 11.00 **Introduction and Working groups definition**
- 11.45 ***Image-Based Data Collection and Metadata Management for Bridge Inspection Using Drones (RTU)***
- 12.30 Lunch break
- 14.00 **Collaborative Monitoring Labs: Scaled steel frame in both intact and damaged configurations - Modelling and Testing (UNIBG)**
- 15.30 Coffee break
- 16.00 **Collaborative Monitoring Labs: Scaled steel frame in both intact and damaged configurations - Modelling and Testing (UNIBG)**

DAY 2 | 8 SEPTEMBER | 9.00-18.00

- 9.00 **Collaborative Monitoring Labs: Scaled steel frame in both intact and damaged configurations - Data Analysis (UNIBG)**
 - 10.30 Coffee break
 - 11.00 **Working groups**
 - 11.45 ***High-Frequency Laser Scanning for Structural Monitoring: Geodetic Approaches to Contactless Observation (HS Bochum)***
 - 12.30 Picnic on the banks of the River Adda
 - 14.00 **On-site activities on a historic bridge on the River Adda**
 - 15.30 Coffee break
 - 16.00 **On-site activities on a historic bridge on the River Adda**
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DAY 3 | 9 SEPTEMBER | 9.00-21.00

- 9.00 **Collaborative Monitoring Labs: Historical pedestrian bridge - Data Analysis (UNIBG)**
10.30 Coffee break
11.00 ***Advanced data processing for vibration inspection data (SUT)***
11.45 ***From Point Clouds to Structural Dynamics: Analysing High-Frequency Laser Scanning Data (HS Bochum)***
12.30 Lunch break
14.00 **Faculty exchange session**
Working groups
15.30 Coffee break
16.00 **Bergamo experience**
18.00 **Social dinner**
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DAY 4 | 10 SEPTEMBER | 9.00-19.30

- 9.00 **Collaborative Monitoring Labs: Model Updating (UNIBG)**
10.30 Coffee break
11.00 ***Serviceability assessment of footbridges under human-induced vibrations: from design to field testing (UnivPM)***
11.45 ***From Image Annotation to 3D Mesh and Virtual Reality Visualization for Structural Defects (RTU)***
12.30 Lunch break
14.00 **Collaborative HBIM and Digital Twin Labs (Politecnico di Torino)**
15.30 Coffee break
16.00 ***Masonry structures monitoring (UNIBG)***
16.45 **UniBg experience**
A Journey into the Cultural Heritage of the University of Bergamo
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DAY 5 | 11 SEPTEMBER | 9.00-17.30

- 9.00 **Interpreting SHM Data for Heritage Risk Mitigation: a "close" case study**
10.30 Coffee break
11.00 **Working groups**
12.30 Lunch break
14.00 **Final discussion and wrap-up session (PART 1)**
15.30 Coffee break
16.00 **Final discussion and wrap-up session (PART 2 - Possibile)**
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The detailed program of activities
is also available online:

