

AIAS2026 Ph.D. Summer Course

Report of Contributions

Contribution ID: 1

Type: **not specified**

Registration and School Opening

Monday 15 June 2026 14:00 (30 minutes)

L. Vergani, Politecnico di Milano

P. Livieri Università di Ferrara

Contribution ID: 2

Type: **not specified**

Lecture 1 - Very-High-Cycle Fatigue of metallic materials: experimental methods and analysis - Prof. Dario Paolino, Politecnico di Torino

Monday 15 June 2026 14:30 (1h 30m)

Contribution ID: 3

Type: **not specified**

**Lecture 2: A Multi-Scale Journey in Boine
Experimental Testing - Prof. L. Cristofolini,
University of Bologna**

Monday 15 June 2026 16:00 (1h 30m)

Contribution ID: 4

Type: **not specified**

Lecture 3: Robust signal processing for temperature harmonic analysis - Prof. G. Pitarresi Università Di Palermo Prof. and L. Palumbo Università Di Palermo

Tuesday 16 June 2026 09:00 (1h 30m)

Contribution ID: 5

Type: **not specified**

**Lecture 4: Advanced applications of thermal
methods - Prof. U. Galietti Politecnico di Bari and
Prof. R. De Finis Università del Salento**

Tuesday 16 June 2026 11:00 (1h 30m)

Contribution ID: 6

Type: **not specified**

**Lecture 5: Multiscale characterization and modelling
of short fibre reinforced composite materials - Prof.
A. Bernasconi, Politecnico di Milano**

Tuesday 16 June 2026 14:00 (1h 30m)

Contribution ID: 7

Type: **not specified**

Lecture 6: Nano-scale techniques for hierarchical material analysis - Prof. J. Schwiedrzik EMPA, Switzerland

Tuesday 16 June 2026 16:00 (1h 30m)

Contribution ID: 8

Type: **not specified**

Hands-on session: nano- scale techniques - Prof. J. Schwiedrzik EMPA, Switzerland

Wednesday 17 June 2026 09:00 (3h 30m)

Contribution ID: 9

Type: **not specified**

Lecture 7: Entropy, Zentropy, and ZENN - Prof. Z.K.Liu Pennsylvania State University, USA

Wednesday 17 June 2026 14:00 (1h 30m)

Contribution ID: **10**

Type: **not specified**

Hands-on session: Entropy, Zentropy, and ZENN - Prof. Z.K.Liu Pennsylvania State University, USA

Wednesday 17 June 2026 16:00 (1h 30m)

Contribution ID: 11

Type: **not specified**

Lecture 8: A hierarchical view on material formation - Prof. D. Karpov ESRF , France

Thursday 18 June 2026 09:00 (1h 30m)

Contribution ID: 12

Type: **not specified**

Lecture 9: Experimental Issues in High-Rate Elastoplasticity - Prof. G. Mirone Università di Catania

Thursday 18 June 2026 11:00 (1h 30m)

Contribution ID: 13

Type: **not specified**

Final test & PhD students panel presentations

Thursday 18 June 2026 14:00 (2 hours)