

ARRIVAL | MONDAY AUGUST 24

Time	Location	Course/Event
14.30 – 20.00 h	Hall of the Convent of Saint Agostino	Informal get together Registration, Logistic Info, and Lodging Distribution in San Vittorino
20.00 – 21.00 h	Dinner, “RISTORANTE PIZZERIA TRAIANO DAL 1985”	

The activities of the School take place in Sant’Agostino (Classes in Room SA9, Group Work in Aula Leone)

DAY 1 | TUESDAY AUGUST 25

Time	Course/Event	Teachers/Lecturers
8.00 – 8.30 h	Breakfast	
9.00 – 12.00 h	Course Opening (Conference Room of the Library of the “Museo Diocesano”)	
9.00 – 10.00 h	Welcome greeting and Course overview. The City of Benevento and UniSannio	Diocesi, UniSannio, Dipartimento di Ingegneria, Municipalità
10.00 – 10.10 h	Historic masonry architecture: geometry and equilibrium	S. Huerta
10.10 – 10.20 h	New tools for masonry reviving the old approach	M. Angelillo
10.20 – 10.30 h	Historic masonry structures facing earthquakes	G. De Felice
10.30 – 11.00 h	Students’ self-introduction	
11.00 – 12.00 h	The City of Benevento Introduction to Field Work. Presentation of the case studies	Giannicola Barone. E. Redondo, E. Orozco, F. Rodriguez, A. Weichbrodt, I. Scarcelli
12.00 – 13.00 h	Guided visit to the “Museo Diocesano”	
13.00 – 14.00 h	Lunch, “RISTORANTE PIZZERIA TRAIANO DAL 1985”	
14.30 – 15.30 h	Lecture The Theory of Survey	A.Bortot
15.30 – 19.00 h	Field work Visit to case studies	Teachers and Tutors
19.00 – 20.00 h	Introductory Lecture (online) The art of Masonry Construction	J. Ochsendorf
20.00 – 21.00 h	Dinner, “RISTORANTE PIZZERIA TRAIANO DAL 1985”	

DAY 2 | WEDNESDAY AUGUST 26

Time	Course/Event	Teachers/Lecturers
8.00 – 9.00 h	Breakfast	
9.30 – 11.00 h	Basic Theory Material masonry. Heyman's principles of limit analysis. Equilibrium and thrust lines. Arches. Cracks. Collapse of arches.	S. Huerta
11.00 – 11.30 h	Coffee Break	
11.30 – 13.00 h	Basic Theory Equilibrium and thrust lines. Arches. Cracks. Collapse of arches. Limit analysis, safety. Buttresses. Case Study: The Church of Guimarei.	S. Huerta
13.00 – 14.00 h	Lunch, “RISTORANTE PIZZERIA TRAIANO DAL 1985”	
15.00 – 16.00 h	Lecture Digital Drawing 1	A.Bortot
16.00 – 16.30 h	Coffee Break	
16.30 – 18.30 h	Field work Visit to case studies	Teachers and tutors
18.30 – 20.00 h	Field work Restitution from scanning	Teachers and tutors
20.00 – 21.00 h	Dinner, “RISTORANTE PIZZERIA TRAIANO DAL 1985”	
21.00 – h	Field work Group work on case studies	

DAY 3 | THURSDAY AUGUST 27

Time	Course/Event	Teachers/Lecturers
8.00 – 9.00 h	Breakfast	
9.30 – 11.00 h	Basic Theory The Gothic Structure. Flying buttresses and cross vaults. Case Study: The stability of the Cathedral of Palma de Mallorca	S. Huerta
11.00 – 11.30 h	Coffee Break	
11.30 – 13.00 h	Basic Theory Towers & Spires. Rose windows. Flat vaults. Case Studies: The Towers of the Obradoiro (Cathedral of Santiago de Compostela), Flat vaults of the Convent of Lluçmajor	S. Huerta
13.00 – 14.00 h	Lunch, “RISTORANTE PIZZERIA TRAIANO DAL 1985”	
15.00 – 16.30 h	Field work Drawing	Teachers and Tutors
16.30 – 17.00 h	Coffee Break	
17.00 – 18.00 h	Invited Lecture Discrete Element Modelling: modeling masonry with 3DEC	José Lemos
18.00 – 19.00 h	Lecture TBA	F. Orozco
19.00 – 20.00 h	Lecture Digital Drawing 2	A.Bortot
20.00 – 21.00 h	Dinner, “RISTORANTE PIZZERIA TRAIANO DAL 1985”	
21.00 – h	Field work Group work on case studies	

DAY 4 | FRIDAY AUGUST 28

Time	Course/Event	Teachers/Lecturers
8.00 – 9.00 h	Breakfast	
9.30 – 11.30 h	From Basic to Advanced Theory The Masonry Challenge. Heyman’s No Tension material The Masonry Challenge. Limit Analysis and Energy: the arch	M. Angelillo
11.30 – 12.00 h	Coffee Break	
12.00 – 13.00 h	Advanced Theory The Masonry Challenge. Heyman’s material: Continuum Models 1	M. Angelillo
13.00 – 14.00 h	Lunch, “RISTORANTE PIZZERIA TRAIANO DAL 1985”	
15.00 – 16.30 h	Field Work Group work on digital restitution and drawing	Teachers and Tutors
16.30 – 17.00 h	Coffee Break	
17.00 – 18.00 h	Invited Lecture Modeling masonry with 3DEC - Application topics	José Lemos
18.00 – 19.00 h	Invited Lecture Masonry techniques in the Archeological Site of Pompei	Vincenzo Calvanese, Alessandra Zambrano (Pompeii Technical Staff)
19.00 – 20.00 h	Lecture Tile vaulting	C. Martin, E. Redondo
20.00 – 21.00 h	Dinner, “RISTORANTE PIZZERIA TRAIANO DAL 1985”	
21.00 – h	Field Work Group work on digital restitution and drawing	Teachers and Tutors

DAY 5 | SATURDAY AUGUST 29

Time	Course/Event	Teachers/Lecturers
8.00 – 9.00 h	Breakfast	
9.30 – 13.00 h	Tile vaulting workshop	C. Martin, E. Redondo
13.00 – 14.30 h	Lunch, “RISTORANTE PIZZERIA TRAIANO DAL 1985”	
15.00 – 19.00 h	Tile vaulting workshop	C. Martin, E. Redondo
20.00 – h	Free night in town	

DAY 6 | SUNDAY AUGUST 30

Time	Course/Event	Teachers/Lecturers
8.30 – 9.15 h	Breakfast	
9.30 – 13.00 h	Tile vaulting workshop	C. Martin, E. Redondo
13.00 – 14.30 h	Lunch, “RISTORANTE PIZZERIA TRAIANO DAL 1985”	
15.00 – 17.00 h	Tile vaulting workshop	C. Martin, E. Redondo
20.00 – h	Free night in town	

DAY 7 | MONDAY AUGUST 31

Time	Course/Event	Teachers/Lecturers
8.00 – 9.00 h	Breakfast	
9.30 – 10.15 h	Advanced Theory The Masonry Challenge. Heyman’s material: Continuum Models 2	M. Angelillo
10.15 – 11.00 h	Advanced Theory Numerical approximations. Rigid Blocks for masonry. The “displacement” approach: PRD, CDF	A. Iannuzzo
11.00 – 11.30 h	Coffee Break	
11.30 – 12.15 h	Advanced Theory Numerical approximations. The “force” approach: CASS. Lumped Force Networks	A. Montanino
12.15 – 13.00 h	Advanced Theory Vaults and domes. Continuum approaches	N. Nodargi
13.00 – 14.00 h	Lunch, “RISTORANTE PIZZERIA TRAIANO DAL 1985”	
15.00 – 17.30 h	Field Work Group work on digital restitution and drawing	Teachers and Tutors
17.30 – 18.00 h	Coffee Break	
18.00 – 19.00 h	Lecture TBA	P. Fuentes
19.00 – 20.00 h	Lecture Safeguarding Built Heritage	Rana Dubeissy
20.00 – 21.00 h	Dinner, “RISTORANTE PIZZERIA TRAIANO DAL 1985”	
21.00 – 22.00 h	Field Work Group work on digital restitution and drawing	Teachers and Tutors

DAY 8 | TUESDAY SEPTEMBER 1

Time	Course/Event	Teachers/Lecturers
8.00 – 9.00 h	Breakfast	
9.30 – 10.15 h	Advanced Theory Doing unilateral with a computer: Applications to Case Studies: PRD. Centrifuge testing	A. Iannuzzo
10.15 – 11.00 h	Limit Analysis with commercial FEM programs	A. Gerges
11.00 – 11.30 h	Advanced Theory Masonry materials and testing	Marianne Saba
11.30 – 12.00 h	Coffee Break	
12.00 – 13.00 h	Advanced Theory Seismic assessment	G. De Felice
13.00 – 14.00 h	Lunch, “RISTORANTE PIZZERIA TRAIANO DAL 1985”	
14.30 – 15.30 h	Lecture (Online) TBA	P. Block
15.30 – 16.30 h	Lecture TBA	F. Mirabella V. Paris
16.30 – 17.00 h	Coffee Break	
17.00 – 18.00 h	Lecture TBA	Gabriele Milani
18.00 – 19.00 h	Computational Masonry through COMPAS Discrete Element Modelling and compas_3dec_prd. Part 1	A. Dell’Endice R. Maya Avelino (Block Res. Group)
19.00 – 20.00 h	Field Work Group work on case studies	Teachers and Tutors
20.00 – 21.00 h	Dinner, “RISTORANTE PIZZERIA TRAIANO DAL 1985”	
21.00 –h	Field work Group work on case studies	

DAY 9 | WEDNESDAY SEPTEMBER 2

Time	Course/Event	Teachers/Lecturers
8.00 – 9.00 h	Breakfast	
10.30 – 16.30 h	Guided tour to the new excavation sites of the Parco Archeologico di Pompei 	Sophie Hay
18.00 – 19.00 h	Computational Masonry through COMPAS Discrete Element Modelling and compas_3dec_prd. Part 2	A. Dell’Endice R. Maya Avelino (Block Res. Group)
19.00 – 20.00 h	Computational Masonry through COMPAS Digital Graphic Statics	A. Dell’Endice R. Maya Avelino (Block Res. Group)
20.00 – 21.00 h	Dinner, “RISTORANTE PIZZERIA TRAIANO DAL 1985”	
21.00 – h	Field work Group work on case studies	

DAY 10 | THURSDAY SEPTEMBER 3

Time	Course/Event	Teachers/Lecturers
8.00 – 9.00 h	Breakfast	
9.30 – 10.30 h	Advanced Theory Seismic assessment and retrofitting	P. Meriggi
10.30 – 11.30 h	Advanced Theory Seismic assessment and retrofitting	M. Sangirardi
11.30– 12.00 h	Coffee Break	
12.00 – 13.00 h	Advanced Theory Experiments and Applications to case studies	G. De Felice
13.00 – 14.00 h	Lunch, “RISTORANTE PIZZERIA TRAIANO DAL 1985”	
14.40 – 15.40 h	Computational Masonry through COMPAS TNA & TNO (SA9):	A. Dell’Endice R. Maya Avelino (Block Res. Group)
15.40 – 16.20 h	Invited Lecture (Sala dell’Assunta - Palazzo San Domenico)	Valentina Russo
16.20 – 17.00 h	Invited Lecture ((Sala dell’Assunta - Palazzo San Domenico) From planning to emergency response in historic structures	Ignacio Gil Crespo
17.00 – 17.30 h	Coffee Break	
17.30 – 20.00 h	Panel Discussion (Sala dell’Assunta - Palazzo San Domenico): The legacy of Jacques Heyman and current approaches to the Structural Analysis of real masonry structures	
17.30 – 18.00 h	The new edition of “The Stone Skeleton” by J. Heyman Lecture by Mario Como	Chair: S. Huerta
18.00– 19.20 h	8 Short Presentations (< 10 min each) on current approaches to the Structural Analysis of real masonry structures: Daniela Addessi, Antonello De Luca, Aguinaldo Fraddosio, Gabriele Milani, Francesco Portioli, Eugenio Ruocco, Vincenzo Mallardo, Stefano Galassi & Giacomo Tempesta, Giulio Zuccaro	Chair: G. De Felice
19.20 – 20.00 h	Discussion	Chair: M. Angelillo
20.00 – 21.00 h	Dinner, “RISTORANTE PIZZERIA TRAIANO DAL 1985”	
21.00 – h	Field work Group work on case studies	

DAY 11 | FRIDAY SEPTEMBER 4

Time	Course/Event	Teachers/Lecturers
8.00 – 9.00 h	Breakfast	
10.30 – 13.00 h	 EUROPEAN HERITAGE EUROPA NOSTRA AWARDS International Summer School on Historic Masonry Structures - HIMASS	EUROPA NOSTRA AWARD CEREMONY
10.30 – 11.20	Institutional greetings	
11.20 – 12.10	General Lecture. The Trajectory of Tile Vaults: A Journey from Antiquity to Modern Practice	Paolo Vitti
12.10 – 12.50	School’s tutors and young teachers moment	
12.50 – 13.00	Award ceremony	
13.00 – 14.30 h	Buffet Lunch	
15.00 – 19.00 h	Field work Group work on case studies	
19.00 – 20.00 h	Invited Lecture (online) Seismic Analysis of Masonry	M. DeJong
20.00 – 21.00 h	Dinner “RISTORANTE PIZZERIA TRAIANO DAL 1985”	
21.00 – h	Field work Group work on case studies	

DAY 12 | SATURDAY SEPTEMBER 5

Time	Course/Event	Teachers/Lecturers
8.00 – 9.00 h	Breakfast	
10.00 – 11.00 h	Students' Final Presentations	Teachers and Tutors
11.00 – 11.30 h	Coffee Break	
11.30 – 12.30 h	Students' Final Presentations	Teachers and Tutors
12.30 – 13.00 h	Awarding of Diplomas to 2026 HIMASS Summer School Participants	S. Huerta, G. De Felice, M. Angelillo
13.00 – 14.00 h	Lunch, "RISTORANTE PIZZERIA TRAIANO DAL 1985"	
17.00 – 19.00 h	Tile vaulting workshop Vault tested to collapse. "Rubble sangria party" (to dispose the resulting materials)	S. Huerta, G. De Felice, M. Angelillo
20.00 – 23.00 h	Social Dinner	

DEPARTURE | SUNDAY SEPTEMBER 6

Time	Course/Event	Teachers/Lecturers
8.00 – 9.00 h	Breakfast	
9.00 – 13.00 h	Farewell and Departures	