Aiming at a unique diversity of teaching and research training, the organisation of the ROSE, REM, WRR, ECR, WGCER Programmes is based on a relatively short permanence of scholars with extremely high qualification. Indeed, all lecturers are internationally recognised experts in their field, coming from a number of distinguished institutions.

UME FACULTY

G.M. Calvi
Director

UME Faculty

A. Abrahamson
S. Akkar
R. J. Archuleta
A. Aref
F. Auricchio
B. B. Basbug-Erkan
P. Bazuzzo
J. Berrill
K. Beyer
J. J. Bommer
G. Boni
J. Berrill
F. Bonilla
D. M. Boore
A. Borsoschek
F. Brezzi
C. Burton
M. Cagnazzo
P. Calvi-Parisetti
A. Carr
G. Castellano
C. Christopoulos
M. Cocco
M. P. Collins
J. Conte
F. Crisafulli
H. Crowley
M. Cubrinovski
V. Cunne
D. Danciu
A. Dazio
M. De Ciesl
F. Dell’Acqua
K. Demeter
A. Der Kiureghian
R. DesRoches
R. Eguchi
A. Elgamal
A. Y. Elghazouli
A. Elhami
M. Erdik
E. Faccioli
M. N. Fardis
E. Ferreto
G. L. Ferves
S. Figini
A. Filippault
B. Foiz
P. Franceschi
P. Gamba
L. Garidu
M. C. Griffith
P. Guilkan
R. Herrmann
S. Hochrainer-Stigler
G. Holland
T. J. R. Hughes
H. Igel
E. Kausel
E. Kavazanjian
K. Kawashima
T. Kakusha
M. J. Kawulsky
S. L. Kramer
C. G. Lai
D. Laletter
F. Lazir
D. Lebeuf
R. Leon
C. Lavardia
A. Loret
M. D. Marzadri
G. Magenes
R. Mechler
A. Mira
E. Miranda
R. Monteiro
A. Monti
G. Monti
F. Noeim
M. Nikashima
S. Nielsen
M. Obilone
Y. Okuyama
S. Otani
M. Pagani
S. Pampolini
R. Paolucci
G. S. Papageorgiou
A. Paradis
P. Paulhe
A. Pavese
A. Peck
M. Pender
F. Peringa
J. Pettinga
R. Piño
P. E. Pinto
C. Prato
J. H. Prevost
G. A. Rassati
E. M. Rathye
A. Reali
M. Regester
J. Restrepo
B. Reynolds
G. Ri
R. Rudani
D. Sarigianis
J. Schneider
C. Scholz
J. F. Semblat
D. Sleijko
E. Spacone
J. F. Stanton
H. Sukoglu
T. Sullivan
J. Swanson
A. Taramelli
E. Todini
T. Triantafillou
C. M. Uang
H. Valensise
A. Vardanian
J. H. Prevost
M. C. Griffith
L. Garrido
P. Gamba
P. Franchin
B. Folz
A. Filiatrault
S. Figini
A. Filippault
B. Foiz


IUSS is the last step of a long-lasting higher education process started on 825 when King Lotharius appointed Pavia, the ancient capital of the Lombard kingdom, as the site for higher education of his kingdom. This process went through the foundation in 1361 by Emperor Charles IV of the Studium Generale later on named University of Pavia. The first Colleges for university students were established in the 15th and 16th centuries. They are now 15 offering, to the almost 2,000 students, a unique opportunity of study and cultural enrichment in a multidisciplinary and multietnic environment. Through the centuries University of Pavia became one of the leading institutions in Europe.

IUSS fulfils, since 1997, an advanced teaching and research model successfully implemented by other prestigious institutions in Italy, like Scuola Normale Superiore and Scuola Sant’Anna in Pisa. Due to the completeness of its education and training fields, which allows a strong interdisciplinary approach, the mission of IUSS is that of contributing to the growth of a small number of selected students by offering them, at any step of their higher education, qualified programs enhancing their capabilities and knowledge. The Institute is also committed to scientific progress by preparing young researchers and developing scientific research programmes.

UME Centre

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The Fourth International Nigel Priestley Seminar

Collegio Cardinale Agostino Riboldi
Pavia, Italy
24-25 May 2018

The European Commission has approved and financed within the Erasmus Plus the Masters on Earthquake Engineering and Engineering Seismology (MEEES), coordinated by UME Centre and featuring also the participation of University of Grenoble Alpes (France), University of Patras (Greece) and Middle East Technical University (Turkey), which aims to enhance quality in European higher education and to promote intercultural understanding through cooperation with Partner Countries. A number of scholarships are available for both non-European and European students. Interested applicants are invited to visit the MEEES website [www.meees.org] for detailed information and instructions on financial conditions and application procedure.

Design Eucentre 2018 - Pavia, Italy
THE UME CENTRE

The Centre for PostGraduate Training and Research in Understanding and Managing Extremes - UME is a new exciting development of the School of Advanced Studies IUSS Pavia ([www.iusspavia.it](http://www.iusspavia.it)), a higher education institution in Italy that offers international advanced postgraduate programmes (Masters and Doctorate). Innovative, internationally planned, open minded, grown on the traditionally fertile soil of the University of Pavia, and based on a system of Colleges unique in Italy, IUSS prepares brilliant individuals to take on the most challenging and demanding public and private positions in contemporary Italy, Europe and the rest of the world. In this framework, the UME Centre offers graduate programmes geared towards the evaluation of uncertainties, risk mitigation and emergency management. The key objective is to provide a system within which Masters and Doctoral candidates can study, understand and deal with extreme events. The UME programmes currently address three main areas:

- **Disaster risk assessment**, focusing mainly on natural hazards such as earthquakes, hurricanes, fires, landslides and floods (with possible extensions to the topics of climatology, desertification, human-made and technological risks, etc.)
- **Extreme situation management**, which includes topics of statistics and probability, law, economics, resource management, finance, insurance, sociology, ethics, psychology and medicine.
- **Engineering for risk mitigation**, which includes topics on engineering to increase the capacity of buildings and infrastructure to withstand the demands from extreme events.

ATTENDING THE EVENT

In addition to UME faculty and students, a maximum of 50 external participants may also be accepted, for which professionals and researchers worldwide are encouraged to take part in the event. A 160€ fee is required from external attendees, to cover for the cost of coffee/lunch breaks and seminar dinner. Special financial conditions are in place for external university researchers or students, to whom a fee of 120€ is usually requested. Those who wish to attend the Seminar are kindly invited to compile and submit a registration form to the UME Secretariat, at the address given overleaf. If you need assistance of any kind (registration form, accommodation, travelling directions, etc.), please do not hesitate in contacting our staff at secretariat@umeschool.it. You may also refer to the UME website ([www.umeschool.it](http://www.umeschool.it)) for further information on all UME Centre activities.

VENUE

The UME Centre is located in Pavia, a historical town in the North of Italy (35km from Milan), full of University tradition. The Seminar will start with the UME Doctoral Defence. The Committee of independent international experts in charge of the examination comprises Prof. Paolo Franchin, Prof. Stefano Pampanin, Prof. Andrea Acciaiuoli, Dr. Maria Teresa Mercuri.

INTERNATIONAL NIGEL PRIESTLEY SEMINAR

As a part of the School's activities, an International Seminar is organised every year, to provide Master and PhD students with an opportunity to present and discuss their research work to an audience of international experts. The Seminar is named in honour of Prof. Nigel Priestley, co-founder of the ROSE School in 2001.

In addition to standard presentations on research work carried out within the Programmes of the School, the annual Seminar features also the tradition of inviting a prominent scientist to deliver a keynote lecture on a given contemporary and highly relevant topic in the field of Earthquake Engineering and Engineering Seismology. At this year’s event, the keynote address entitled “Twenty-three years from Kobe - Japanese research and practice on collapse, performance, functionality, and resilience” will be delivered by Professor Masayoshi Nakashima, Professor at the University of Kyoto.

The Seminar will start with the UME Doctoral Defence. The Committee of independent international experts in charge of the examination comprises Prof. Paolo Franchin, Prof. Stefano Pampanin, Prof. Andrea Acciaiuoli, Dr. Maria Teresa Mercuri.

VENUE

The UME Centre is located in Pavia, a historical town in the North of Italy (35km from Milan), full of University tradition. The Seminar will take place at the Collegio Riboldi, a landmark structure dating back to the second half of the seventeenth century, purposefully refurbished to serve as an international hosting facility for postgraduate students and visiting scholars working in the field of natural risk mitigation. It is located in the centre of Pavia, in Via Luigi Porta, 10.

SEMINAR PROGRAMME

Thursday, 24th May

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<th>Session</th>
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<td>13.30-14.00</td>
<td>Registration</td>
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<tr>
<td>14.00-16.15</td>
<td>Session 1 - Chairman: M. Martina</td>
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<td>UME Doctoral Defence</td>
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<td>16.15-16.45</td>
<td>Coffee break</td>
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<tr>
<td>16.45-18.30</td>
<td>Session 2 - Chairman: T.J. Sullivan</td>
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<tr>
<td></td>
<td>Component-Based Models for Connections in Steel MRFs Under Progressive Collapse: Parametric, Sensitivity and Fragility Analyses D. Rodriguez-Pacheco1</td>
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<td>Estimation of Floor Accelerations in Steel Moment Frames Under Earthquake Loading V.I. Gonzalez-Hidalgo2</td>
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<td>Seismic Assessment and Retrofit of an Existing RC School Building in Italy W.W. Carolis-Gallo2</td>
</tr>
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<td>Effect of Material Property Variability on the Seismic Performance of Steel MRFs L.G. Alvarez Sanchez2</td>
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Friday, 25th May

<table>
<thead>
<tr>
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<tr>
<td>09.30-11.00</td>
<td>Session 3 - Chairman: A. Carr</td>
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<td>Seismic Fragility of a Pile-Top System Based on Incremental Dynamic Analysis S. Momin2</td>
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<td>Investigation of Seismic Performance of Floating Roasted Steel Storage Tanks with Consideration of New Type of Disconnection System V. Ozarska3</td>
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<td>Effect of Accelerogram Filtering on Linear and Nonlinear Structural Response E. Veliu2</td>
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<td>11.00-11.30</td>
<td>Coffee break</td>
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<td>11.30-13.00</td>
<td>Session 4 - Chairman: G. Magenes</td>
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<td>Near-field Ground Motion Simulation: Application to the Mw 6.0 2012 Emilia Romagna Earthquake E. Schiappapietra2</td>
</tr>
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<td>Towards a Unified Earthquake Loss Assessment Model for Central America and the Caribbean A. Calderon1</td>
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<td>Experimental Investigation of the Seismic Response of a Full-scale URM Building with Chimneys S. Kallioras1</td>
</tr>
<tr>
<td>13.00-14.30</td>
<td>Lunch break</td>
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<td>14.30-16.30</td>
<td>Session 5 - Chairman: G.M. Cahli</td>
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<tr>
<td></td>
<td>Keynote Lecture - Twenty-three Years from Kobe - Japanese Research and Practice on Collapse, Performance, Functionality, and Resilience M. Nakashima1</td>
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<td>Overview of 2017-2018 Eucentre Activities</td>
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<td></td>
<td>Graduation Ceremony</td>
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1 PhD Student, 2 Master Student