

• ROSE FACULTY

Aiming at a unique diversity of teaching and research training in the field of Earthquake Engineering, the organisation of the ROSE School is based on a relatively short permanence of scholars with extremely high qualification. Indeed, all lecturers at the School are internationally recognised experts in the field, coming from a number of distinguished institutions, listed below:

G.M. Calvi	ROSE School, Co-Director
M.J.N. Priestley	ROSE School, Co-Director
N. Abrahamson	Pacific Gas & Electricity Company, USA
D.P. Abrams	University Illinois, Urbana-Champaign, USA
F. Auricchio	Università degli Studi di Pavia, Italy
G. Ballio	Politecnico di Milano, Italy
K.J. Bathe	MIT, Cambridge, USA
J. Berril	University of Canterbury, New Zealand
J.J. Bommer	Imperial College, London, UK
D.M. Boore	US Geological Survey, California, USA
F. Brezzi	Università degli Studi di Pavia, Italy
F. Carli	Università degli Studi di Pavia, Italy
E.C. Carvalho	LNEC, Lisbon, Portugal
M.P. Collins	University of Toronto, Canada
A. Cornell	Stanford University, USA
E. Cosenza	Università di Napoli "Federico II", Italy
A. Der Kiureghian	University of California at Berkeley, USA
A. Elnashai	University Illinois, Urbana-Champaign, USA
E. Faccioli	Politecnico di Milano, Italy
M.N. Fardis	University of Patras, Greece
G.L. Fences	University of California at Berkeley, USA
A. Filiatrault	University of California at San Diego, USA
L. Gambarotta	Università degli Studi di Genova, Italy
P. Gasparini	Università di Napoli "Federico II", Italy
T.J.R. Hughes	Stanford University, USA
I.M. Idriss	University of California at Davis, USA
K. Kawashima	Tokyo Institute of Technology, Japan
M.J. Kowalsky	North Carolina State University, USA
C.G. Lai	EUCENTRE, Pavia, Italy
G. Macchi	Università degli Studi di Pavia, Italy
G. Magenes	Università degli Studi di Pavia, Italy
N. Makris	University of Patras, Greece
G. Martin	University of Southern California, USA
G. Monti	Università di Roma "La Sapienza", Italy
M. Nakashima	University of Kyoto, Japan
T.D. O'Rourke	Cornell University, USA
S. Otani	University of Tokyo, Japan
V. Pane	Università degli Studi di Perugia, Italy
A. Pavese	Università degli Studi di Pavia, Italy
A. Pecker	Ecole Nat. des Ponts et Chaussées, France
M.J. Pender	University of Auckland, New Zealand
R. Pinho	EUCENTRE, Pavia, Italy
A. Pinto	ELSA, Joint Research Centre, Ispra, Italy
P.E. Pinto	Università di Roma "La Sapienza", Italy
J. Restrepo	University of California at San Diego, USA
F. Sabetta	Servizio Sismico Nazionale, Roma, Italy
F. Seible	University of California at San Diego, USA
E. Spacone	University of Chieti, Italy
D. Veneziano	MIT, Cambridge, USA

The University Institute for Advanced Studies (IUSS) was founded in 1997 by the University of Pavia and the Italian Ministry of Universities and Research, to provide advanced training and education at undergraduate and post-graduate levels. Within this framework, the aim of the European School of Advanced Studies in Reduction of Seismic Risk (ROSE) is to prepare professionals and researchers in the field of Earthquake Engineering, to meet the ever-growing worldwide demand for expertise in this specialised subject.



ROSE SCHOOL

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Web-site: www.roseschool.it



The European Commission has attributed to the ROSE School the status of Marie Curie Training Site, acknowledging the high quality of its earthquake engineering training programme. The signed agreement provides funds that allow the financing of postgraduate scholarships with a duration of 3 to 12 months. The bursaries, with a value of 1200€/month, may be awarded to PhD students currently undertaking research work on earthquake engineering related topics, who might wish to spend a relatively short period of time at the ROSE School, attending taught courses or carrying out research work under the supervision of one of the Faculty members. Further information and detailed instructions on how to submit an application can be found at the ROSE School website, indicated above.

Grafica Cardano - Pavia Italy



Istituto Universitario
di Studi Superiori di Pavia



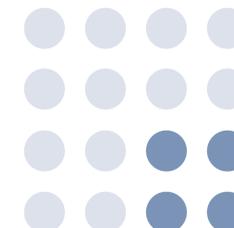
Università degli Studi
di Pavia

THE FOURTH INTERNATIONAL ROSE SCHOOL SEMINAR

Pavia, 31 May - 01 June 2004

ROSE SCHOOL

EUROPEAN SCHOOL
FOR ADVANCED STUDIES
IN REDUCTION
OF SEISMIC RISK



• THE ROSE SCHOOL

The European School of Advanced Studies in Reduction of Seismic Risk (ROSE) was founded in the autumn of 2000, with the aim of providing higher-level education in the field of earthquake engineering. The syllabus offers a comprehensive set of subjects covering applied mechanics, structural engineering, earthquake engineering, engineering seismology and soil dynamics, with emphasis on both theoretical background and design considerations.

Each course is intensively taught in a period of four to six weeks, during which the respective lecturer is able to fully dedicate his/her time and efforts exclusively to the scholastic activities at the school, thus ensuring teaching and research training at the highest possible levels of quality. The School also relies on advanced numerical and experimental facilities, including the large structural laboratory of the University of Pavia. Academic activities take place in a number of dedicated classrooms and computer labs, located within the same building complex where all students are hosted.

All of the above endows a truly unique character to the ROSE School, be it for its fully international nature or for its innovative organisation in education and research training in the field of Earthquake Engineering.

• INTERNATIONAL ROSE SCHOOL SEMINARS

As a part of the ROSE program, an International seminar is organised every year, to provide the School students with an opportunity to present and discuss their research work to an audience of international experts. An exception to this rule was made in the First International ROSE School Seminar where, for obvious reasons, there were no students at an advanced stage of their studies, and hence a special forum dedicated to some of the most controversial current issues in earthquake engineering was organised instead.

In addition to standard presentations on research work carried out at the School, the annual Seminars feature 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. At this year's event, such keynote address will be delivered by Professor Michael Collins (University of Toronto, Canada) and is titled "The Art of Structural Engineering".

It is also foreseen that all contributions to the seminar will be published, after a standard review process, in a special issue of the *Journal of Earthquake Engineering*, which will be distributed to all participants and journal subscribers in the beginning of the year 2005. Copies of the JEE Special Issues containing the proceedings of the three previous editions of this annual Seminar are available from the ROSE School Secretariat, on request.

• ATTENDING THE EVENT

As in its previous editions, a large number of the ROSE Faculty members, listed overleaf, will be attending the Seminar, ensuring a lively and entertaining workshop. Further, it is noted that relatively extended times are allocated for the presentation of each paper, so that in-depth and highly technical discussions can take place.

In addition to ROSE faculty and students, a maximum of 50 external participants may also be accepted, for which reason 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, seminar dinner and proceedings. Special financial conditions are, however, in place for University researchers or students, to whom a fee of not more than 120€ is usually requested.

Those who wish to attend the Seminar are kindly invited to complete and submit the registration form to the ROSE School 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 Administrative Officer, Ms. Sandra Castelli (rose@unipv.it). You may also refer to the ROSE website for further information on all ROSE School activities.

• VENUE

The ROSE School is located at the Collegio Alessandro Volta, in Pavia, a historical town in the North of Italy (35 km from Milan), full of university tradition and fame. The Collegio itself, however, is a recent facility, opened in the year 2000, featuring combined teaching and residential facilities. All Seminar activities will therefore take place within the School's facilities, more specifically at its main amphitheatre (Aula Magna).

• POST-SEMINAR ACTIVITIES

As part of its PhD admission procedure, a written/oral examination takes place, once a year, at the ROSE School. The scheduling of such exam is always made to coincide with the week of the International Seminar, so as to capitalise on the contemporaneous presence of a large number of the School's academic staff. The 2004 PhD entry written examination will take place on the morning of Thursday 3rd, whilst oral interviews will be conducted on Friday 4th. All ROSE School faculty members are invited to take part.

• PROGRAMME OF THE SEMINAR

Monday 31st May

10.00-13.00	ROSE School Board Meeting
13.00-14.00	Welcome party and registration
14.00-16.00	Session 1 - Chairman: J.J. Bommer C. Beltrami*, C. Lai, V. Pane and A. Pecker <i>A refined methodology for assessing seismic soil-pile-structure interaction in engineering practice</i> F. Fele*, E. Faccioli and A. Callerio <i>Seismic analysis of an underground railway station, including SSI</i> P. Mergos* and K. Kawashima <i>Isolation effects of foundation rocking on bridge response</i>
16.00-16.30	Coffee break
16.30-18.00	Session 2 - Chairman: M.J.N. Priestley M. Rota*, A. Pecker, D. Bolognini and R. Pinho <i>Seismic vulnerability of masonry arch bridge walls</i> R. Iaccino* and G. Magenes <i>Probabilistic implementation of a mechanics-based procedure for seismic risk assessment of classes of r.c. buildings</i>
20.30-23.30	ROSE Seminar Dinner

Tuesday 1st June

9.00-10.30	Session 3 - Chairman: G.M. Calvi M. Kurata* and M. Nakashima <i>Effects of column base behaviour on the overall response of steel moment frames</i> P. Morandi* and G. Magenes <i>Inconsistencies in codified procedures for seismic design of masonry buildings</i>
10.30-11.00	Coffee Break
11.00-13.00	Session 4 - Chairman: M.J. Kowalsky C. Blandon*, G.M. Calvi, M.J.N. Priestley, R. Mendis and R. Pinho <i>Equivalent damping for DBD applications</i> P. Miranda*, G.M. Calvi and M.J.N. Priestley <i>Displacement capacity of RC columns with limited shear resistance</i> J.D. Pettinga* and M.J.N. Priestley <i>Dynamic behaviour of RC frames using Direct Displacement-Based Design</i>
13.00-14.30	Lunch break
14.30-16.00	Keynote lecture – M. Collins <i>The Art of Structural Engineering</i>
16.00-17.00	Graduation ceremony Programme of future activities Closing speeches

* ROSE School student