

PAYMENT AND REGISTRATION

The fee is 200 Euros (VAT included).

Payment will be possible through on-line payment at

<http://x-dms2015.sciencesconf.org/resource/page/id/35>

The fee is comprehensive of the course material and coffee breaks.

No fee is required for UNIFE Ph.D students.

A confirmation email to elena.benvenuti@unife.it is acknowledged

ORGANIZATION

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FOR FURTHER INFORMATION

Contact elena.benvenuti@unife.it.

Visit <http://x-dms2015.sciencesconf.org> for updates on the program.



IUSS SCHOOL
FERRARA, ITALY

Ph.D. course on
eXtended
Discretization
Methods

7-8 September, 2015

IUSS SCHOOL
FERRARA, ITALY

<http://iuss.unife.it>

<http://x-dms2015.sciencesconf.org/>



UNIVERSITÀ
DEGLI STUDI
DI FERRARA
- EX LABORE FRUCTUS -

X-DMS COURSE

The X-DMS short course on EXTENDED DISCRETIZATION METHODS will be held on Monday 7 and Tuesday 8, September 2015 just before the X-DMS 2015 conference.

PROGRAM

The lectures will focus on advanced topics of computational mechanics pertaining to discretization techniques such as the eXtended Finite Element Method and meshless methods. The topics to be covered include applications to two-phase and free-surface flows, simulation of fast fracture, multiscale methods for fracture, analysis of conditioning problems and stabilization techniques, modelling and numerical aspects of the transition process from damage to fracture, numerical integration issues arising in the presence of singularities and discontinuities.

LECTURERS

- Prof. Alain Combescure, AREVA SAFRAN Chair INSA Lyon, France.
- Prof. Thomas-Peter Fries, Institute of Structural Analysis, Graz, Austria.
- Dr. Ing. Stefan Löhnert, Institute of Continuum Mechanics, Hannover, Germany.
- Prof. Nicolas Moës, Institute Ecole Centrale, Nantes, France.
- Prof. N. Sukumar, Department of Civil & Environmental Engineering, UC Davis, USA.

TIME TABLE

	Monday, September 7	Tuesday, September 8
8,30-10,00	From damage to fracture: modeling aspects Moës	From damage to fracture: numerical aspects Moës
10,30-12,00	X-FEM for fast fracture Combescure	Meshless methods for fracture Combescure
12,00 -13,00	Quadrature Methods for discontinuities and singularities Sukumar	Quadrature Methods for discontinuities and singularities Sukumar
14,00-15,30	Multiscale methods for fracture Löhnert	Conditioning problems and stabilization techniques Löhnert
16,00-17,30	The XFEM in two-phase and free-surface flows- Part I Fries	The XFEM in two-phase and free-surface flows- Part II Fries

LOCATION

IUSS School , Via delle Scienze, n. 41/B -
44121 Ferrara ITALY
<http://iuss.unife.it/>

