PolimiPhD4CasaItalia

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The repeated and destructive earthquakes in the center of Italy have struck very deeply the country. Several cities and towns have been hit and, besides the invaluable loss of human lives, the damages on the built environment, according to the Civil Protection Reports, are estimated up to 530 M€, without considering the social long term impacts on the communities.

The PhD School and the PhD Representatives of Politecnico di Milano are organizing a series of one-day meetings on four main topics: Hydrogeological risk, Seismic risk, Communication and Data, Urban Requalification, in order to engage the PhD candidates of Politecnico di Milano in the elaboration of new ideas and proposals for the Casa Italia project.

The meetings will start on May 17th and will end on June 9th. Each meeting will provide both theoretical and practical inputs from Politecnico di Milano Faculty, as well as from professionals and field operators of Casa Italia, offering in this way the opportunity for active interaction with roundtables and focus groups.

PolimiPhd4CasaItalia will end with a final event that will be held on June 27th. This final event will include a sort of Hackathon, a competition that will challenge groups of PhD students in the creation of new ideas for the project of Casa Italia. We look forward to receiving the active participation of the PhD candidates. Those who might be interested to join and actively contribute please write to: phd4casaitalia@gmail.com
Calls and events

Switch2Product program
Switch2Product is a program designed by PoliHub, the business incubator of Politecnico di Milano, for students, PhD candidates, and faculty members. In the 2017 edition, Switch2Product is strengthened by the "Innovation Challenge", managed by Deloitte, awarding the best project with a grant of up to 30k €, for the development of new intellectual property at Polimi, access to the Accelerator Program, and Media Coverage.

from April 4th to June 4th, further information here, or in the website:

Italian government Scholarships for foreign and IRE students
The Italian Ministry for Foreign Affairs and International Cooperation awards scholarships for studying in Italy both to foreign citizens and to Italian citizens living abroad (IRE) for the Academic Year 2017-2018. PhD candidates may apply for the scholarships. Before applying, read carefully the Call and check "Universitaly", with the necessary information on Italian universities, as well as this website page.

Online applications deadline: 10th May 2017 midnight (Italian time)

2017 PhD Call
Politecnico di Milano has issued the call for PhD positions, starting their career in November 2017, for candidates earning their second-level degree by October 31st, 2017. Access to Ph.D. Programmes is by selection. The University selection call is issued annually for all Ph.D. Programmes, and is viewable at the link www.phd-admission.polimi.it. All active PhD Programmes will offer positions in the call.

Deadline for application: May 26th 2017 at 2 PM (Italian time)

Seminars
A view on diversity in Engineering: from a Marie Curie Actions to a professorship in Academia
The Lecture will deal with diversity in Engineering from the viewpoint of Prof. Axelle Viré (TU Delft) academic career. The talk will introduce the Marie Curie Alumni Association and present some of its activities towards gender balance in science and engineering. Furthermore, Viré's experience with diversity throughout her academic career will be considered, by outlining some of the actions currently in place, at TU Delft, with particular respect to implicit biases.

May 26th, 2017

Starting courses – PhD School

POLIMI4CASAITALIA
Prof. Paolo Biscari (coordinator)
The goal of this course is to offer the PhD candidates an overview of the Casa Italia activities, and to give them the opportunity of setting up potential collaborations with the national program. The Casa Italia project aims at reinforcing the risk assessment and prevention culture in the Italian environment. POLIMI4CasaItalia is a modular course, with the following schedule: Hydrogeological risk (May 17th @ Lecco Campus); Data collection and elaboration (May 24th @ Bovisa Campus); Seismic risk (May 31st @ Leonardo Campus); Urban regeneration (June 9th @ Leonardo Campus). During the Final Meeting (June 27th @ Leonardo Campus) the PhD candidates will present and discuss their collaboration proposals.

May 17th, 2017
NANOMEDICINE
Prof. Metrangolo Pierangelo
Nanomedicine, nanotechnology applied to healthcare, is a fast-growing multidisciplinary field of science, offering very promising possibilities in diagnosis and therapy. A major goal of this course is to provide a common basis of knowledge on nanomedicine that transcends the traditional boundaries between disciplines
May 30th, 2017

SYMMETRY APPLICATIONS IN CLASSICAL AND QUANTUM PHYSICS
Prof. Marco Finazzi
The aim of the course is to illustrate the importance of symmetry in many different branches of physics. In particular, the students will be introduced to group theory and to its applications in quantum physics. They will learn how to derive general properties of matter from symmetry considerations
May 1st, 2017

CURRENT TOPICS IN FLOW AND TRANSPORT IN GEOLOGICAL POROUS MEDIA: MODELING AND EXPERIMENTS
Prof. Alberto Guadagnini
The course discusses at both conceptual/modeling and experimental/field measurement levels the key aspects and governing the migration of new and emerging contaminants in porous and fractured natural media as well as the modern challenges associated with modeling these processes.
May 17th, 2017

ENTREPRENEURSHIP AND ENTREPRENEURIAL FINANCE
Prof. Evila Piva
The objective of the course is to offer the students the opportunity to familiarize themselves with the most recent discussions in Entrepreneurship research and to identify interesting research questions related to these themes.
May 15th, 2017

Starting courses – Doctoral Programmes

PhD in Architecture, Built Environment and Construction Engineering

PLANNING MOBILITY AND ACCESSIBILITY IN EMERGENCY SITUATIONS
The course deals with the most recent modelling practice of transportation systems during emergency worked out in the last decade necessary to evaluate and planning complex activities which may or must be planned during emergency events. Different levels of detail (outdoor and indoor) are taken into consideration so as different types of demand-supply interaction.
Students will be introduced into modelling, and planning techniques typical of dynamic simulation. They should also be introduced into practices currently applied in emergency situations for disaster preparedness, response, and recovery at different territorial scales. Since this field is, by its very nature, cross disciplinary and related to the flow of people and goods they should be also prepared to face multidisciplinary problems.
From 08-12/05 (full immersion!)
DESIGN/MEMORY/INVENTION
proff. C. Pallini, N.Lombardini, F.Bonfante

What can be understood as “scientific research” in the field of architectural design? In addressing this question, the course will focus on the role of memory and invention in the design process, questioning the binary opposition between the terms. The course aims at training to write a scientific essay (a paper) according to the rules currently required by the international scientific community. Teaching will include discussion on draft essays, accompanied by the necessary documents and iconographic material.

From 02/05 to 23/05

MECHANICS OF COMPOSITE MATERIALS
TEXTILE COMPOSITES: MANUFACTURE, MECHANICAL PROPERTIES, MODELLING
prof. Valter Carvelli, Stepan Lomov (Dept. of Materials Engineering, KU Leuven)

The course covers manufacturing, mechanical properties, modelling and applications of textile composites. It targets engineering and natural science students (Master and PhD level), who is interested in acquiring understanding of what are composite materials, how they are made and how their properties can be assessed for design of components and products in different areas (civil engineering, auto, aerospace, marine, biomaterials ... ).

From 15-19/05 (full immersion!)

PhD in Design

TOOLS FOR RESEARCH IN DESIGN
Prof. Lucia Rosa Elena Rampino

The course intends to give the student the ability to identify - starting from their research topic - a channel of appropriate funding. Therefore, the lessons deal with the following subjects: strategic planning of research, national and international channels of financing, strategic areas for the design, most promising fields, identification of emerging areas.

22 May at 9.15 Room Azzurra (3° floor Department Design-Via Durando 38/A)