



**UNIVERSITÉ
DE GENÈVE**

**CENTRE UNIVERSITAIRE D'ÉTUDE
DES PROBLÈMES DE L'ÉNERGIE**

Uni-Battelle, Bâtiment A, Route de Drize 7 | CH-1227 Carouge
Tél. 022 379 06 61 | Fax 022 379 06 39

**CYCLE DE FORMATION ÉNERGIE – ENVIRONNEMENT
CONFÉRENCE – DÉBAT**

**Energy Saving Potential in Italian Buildings :
Beyond the Standards**

Simone Ferrari

Groupe BEST, Politecnico di Milano, Italie

Jeudi 19 avril 2007 à 17h.15

Auditoire D 185 - Bâtiment D – Uni Battelle
7, route de Drize
1227 Carouge

PROGRAMME DES PROCHAINES CONFÉRENCES :

Jeudi 3 mai 2007 à 17h15

The opening of the electricity market and the reorganisation of the electrical industry in Italy, P. Ranci, Università Cattolica (Milan) et Ecole de régulation (Florence)

Jeudi 24 mai 2007 à 17h15

Urbanisation et développement durable dans les villes du Sud, J.-C. Bolay, EPFL

Jeudi 7 juin 2007 à 17h15

Ethique dans l'économie et les affaires: enjeux et défis, P. H. Dembinski, Université de Fribourg

*** The Conference will be given in English ***

The Speaker

Simone Ferrari, Assistant Professor of Applied Environmental Physics at the Department BEST – Building & Environment Science & Technologies of the Politecnico di Milano, is involved in teaching and research activities on renewable energy and advanced technologies for sustainable buildings. He has been participating in several EU-funded research programmes and is a member of the working group of IEA – International Energy Agency. Since 1994, he has collaborated in several research activities and teaching in the field of bi-climatic concepts and low energy technologies for energy saving and comfort in built environment. In the past, he was also a consultant for the Research Institute Ambiente Italia and successfully completed several studies on energy planning at urban scale and energy audits for buildings retrofit.

The Conference

At present 95% of energy consumption for heating, domestic hot water, air conditioning, lighting and ventilation in Europe are related to buildings built before 1980. Therefore, in order to achieve the Kyoto Protocol targets, the immediate priorities could be to improve the energy performance of these buildings.

In Italy, based on the European Energy Performance of Buildings Directive (EPBD) delivered in 2002, the first new national benchmarks for energy efficiencies in buildings are defined and have been effective since January 2006. The prescriptions of the new standards, as foreseen by the EU Directive, are also related to the retrofit actions for existing buildings. In this frame, Public Administrators should promote criteria, methods and tools to verify building energy quality and to define rehabilitation strategies on a large scale.

Referring to case-study examples, the speaker will present the energy performance of representative existing Italian buildings and the scenario regarding their improvement based on the new energy efficiency standards. Moreover, some of the issues not yet covered by the existing regulations but having a large potential for energy savings also for new constructions (i.e. control strategies for optimization of energy uses) will be highlighted, in order to promote a new approach for avoiding energy wastes.