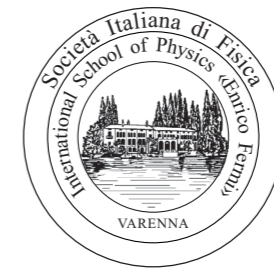




# Joint EPS-SIF



# INTERNATIONAL SCHOOL ON ENERGY

UNDER THE SPONSORSHIP OF  
CAMERA DI COMMERCIO DI LECCO - ISTITUTO NAZIONALE DI FISICA NUCLEARE  
CONSIGLIO NAZIONALE DELLE RICERCHE - ISTITUTO NAZIONALE DI RICERCA METROLOGICA  
MUSEO STORICO DELLA FISICA E CENTRO STUDI E RICERCHE "ENRICO FERMI"

## Course II

## ENERGY: BASICS CONCEPTS AND FOREFRONT IDEAS

17 - 23 July 2014

VILLA MONASTERO - VARENNA, LAKE COMO

### Directors of the Course:

L. CIFARELLI – Dipartimento di Fisica e Astronomia, Università di Bologna, INFN, Sezione di Bologna (Italy)  
F. WAGNER – Max-Planck-Institut für Plasmaphysik, Greifswald (Germany)

### Topics:

- Bio-energy
- Chemical energy
- Climate
- CO<sub>2</sub> neutral fuels
- Energy economy
- Energy saving technology
- Environment and climate
- Fission energy
- Fossil energy
- Fukushima
- Fusion
- Geothermal power
- Industrial development
- Inter energy supply
- Life cycle analysis
- Materials shortage
- Mobility
- Network and systems
- Photovoltaic devices
- Photovoltaic materials
- Physics and economy
- Thorium reactors
- Wind energy
- World energy resources

### Lecturers:

A. M. BRADSHAW – Max-Planck-Institut für Plasmaphysik, Garching (Germany)  
 S. CENTRO – Dipartimento di Fisica, Università di Padova, INFN, Sezione di Padova (Italy)  
 L. CIFARELLI – Dipartimento di Fisica e Astronomia, Università di Bologna, INFN, Sezione di Bologna (Italy)  
 A. CLERICI – CESI, Milano (Italy)  
 Lecturer from DIFFER, Nieuwegein (The Netherlands) – *tbd*  
 H.-P. EBERT – ZAE Bayern Abteilung 2, Funktionsmaterialien der Energietechnik, Würzburg (Germany)  
 G. ERDMANN – Technische Universität Berlin, Fachgebiet Energiesysteme, Berlin (Germany)  
 R. FRIEDRICH – IER, Universität Stuttgart (Germany)  
 H. HELD – Forschungsstelle Nachhaltige Umweltentwicklung, KlimaCampus, Universität Hamburg (Germany)  
 L. J. F. HERMANS – Leiden Institute of Physics, Leiden University (The Netherlands)  
 A. MANZELLA – Istituto di Geoscienze e Georisorse del CNR, Pisa (Italy)  
 K. MURAOKA – Plazwire Co., Ltd, Fukuoka (Japan)  
 C. OHLER – ABB Corporate Research, Baden-Dättwil (Switzerland)  
 J. ONGENA – Laboratory for Plasma Physics, Ecole Royale Militaire, Brussels, LPP/ERM-KMS, Association EURATOM-Belgian State, Brussels (Belgium)  
 A. POLMAN – FOM Institute AMOLF, Amsterdam (The Netherlands)  
 F. PRODI – Istituto di Scienze dell'Atmosfera e del Clima del CNR, Bologna (Italy)  
 J.-P. REVOL – CERN, Geneva (Switzerland) and Centro Fermi, Roma (Italy)  
 M. RIPANI – INFN, Sezione di Genova (Italy)  
 R. SCHLÖGL – Fritz-Haber-Institut der Max-Planck-Gesellschaft, Abteilung Anorganische Chemie, Berlin (Germany)  
 E.-D. SCHULZE – Max-Planck Institute für Biogeochemie, Jena (Germany)  
 R. VIALLY – IFP Energies Nouvelles, Lyon (France)  
 F. WAGNER – Max-Planck-Institut für Plasmaphysik, Greifswald (Germany)  
 H.-J. WAGNER – Institut für Energietechnik, Ruhr Universität Bochum (Germany)  
 S. ZANNELLA – Edison S.p.A., Research, Development and Innovation, Milano (Italy)

Deadline for Application: 30 April 2014

### Correspondence and application forms should be sent to:

G. ALIMONTI  
INFN, Sezione di Milano  
Via Celoria 16  
20133 Milano (Italy)  
Tel.: ++39-02-50317363 Fax: ++39-02-50317624  
e-mail: Gianluca.Alimonti@mi.infn.it

Participation fee: € 900,00 (for attendance, board, lodging and Lecture Notes)

### GENERAL INFORMATION

- A) – The School is intended for PhD students and young post-docs. The number of students at the Course is limited to about 70. Students are requested to attend all lectures.  
 B) – Whoever may be interested in attending the Course and is not entitled - for his age or other reasons - to be considered a student, may follow the Course as observer. Registration fee charged to observers is Euro 500,00. Observers should provide for their board and lodging; if required, the School may take care of their hotel accommodation.  
 C) – Applicants will be informed of the decision on their admittance within 6 weeks from the beginning of the Course.  
 D) – Owing to the limited number of places available in the lecture hall, it will not be possible to allow any person not selected by the Committee of the School to follow the Course.  
 E) – Students are requested to arrive at Varenna the day preceding the opening of the Course: Wednesday, 16 July. Accommodation for the students will be provided in rooms with 2 beds in hotels at Varenna.  
 F) – Fees should be paid by students and observers following the instruction and within the date indicated in the letter of admittance.  
 G) – Scholarships may be granted to deserving students who need financial help. Such requests must be specified in the application and justified in the recommendation letter. Some of the Scholarships will be granted to EPS and/or SIF Members.  
 H) – Students should avoid being accompanied by relatives. In view of the holiday season local accommodation is very limited. Quite exceptionally the School could see to the accommodation of members of students' families in local hotels. Hotel expenditure for students' relatives will be payable separately and directly to the hotel management.

General Organization: Società Italiana di Fisica – Via Saragozza 12 – 40123 Bologna, Italy – Tel. ++39-051-331554 – Fax ++39-051-581340 – [sif@sif.it](mailto:sif@sif.it) – [www.sif.it](http://www.sif.it)