

**APPLICATION**  
 7<sup>th</sup> INTERNATIONAL  
 SUMMER SCHOOL  
 SOLAR ENERGY 2003  
 Samedan - Switzerland  
 July 28<sup>th</sup> - August 8<sup>th</sup>, 2003

**Deadline: May 15<sup>th</sup> 2003**  
**Please return to:**  
 Sandra Gyger  
 Swiss Federal Office of Energy  
 CH 3003 Bern  
 E-Mail: sandra.gyger@bfe.admin.ch



|   |               |  |            |          |      |      |
|---|---------------|--|------------|----------|------|------|
| <b>FULL NAME:</b> Mr./Mrs./Miss   |               | Nationality:                                     |            |          |      |      |
|   |               | Date of birth:                                   |            |          |      |      |
| <b>PRESENT ADDRESS</b>  |               |  |            |          |      |      |
| Home:   |               | Tel:   |            |          |      |      |
|   |               | E-Mail:  |            |          |      |      |
| Business:   |               | Tel:   |            |          |      |      |
|   |               | E-Mail:  |            |          |      |      |
| <b>EDUCATION</b>  |               |  |            |          |      |      |
| University or Institute:  |               |  |            |          |      |      |
| Degrees earned:   |               | Date:  |            |          |      |      |
| Main subject of study:  |               |  |            |          |      |      |
| if student, years completed:  |               |  |            |          |      |      |
| <b>PROFESSIONAL ACTIVITIES</b>  |               |  |            |          |      |      |
| Employer (name and address):  |               |  |            |          |      |      |
| Present position:   |               |  |            |          |      |      |
| Past experience <sup>x)</sup> :   |               |  |            |          |      |      |
| Reference person (name, institution, tel., e-mail):   |               |  |            |          |      |      |
| Mark your interest for participation in <b>WORKSHOPS</b> (the organisers request to mark <u>two</u> topics) |               |  |            |          |      |      |
| <input type="checkbox"/> 1 Energy - efficient buildings   |               | <input type="checkbox"/> 2 Solar power plants    |            |          |      |      |
| <input type="checkbox"/> 3 Photovoltaic systems   |               | <input type="checkbox"/> 4 Solar thermal systems |            |          |      |      |
| Knowledge of English language   | understanding |  |            | speaking |      |      |
|   | good          | fair   | poor       | good     | fair | poor |
|   |               |  |            |          |      |      |
| If accepted I will actively participate and be present during the school sessions.                          |               |  |            |          |      |      |
| Date:   |               |  | Signature: |          |      |      |

<sup>x)</sup> use separate sheet if required

7<sup>th</sup> international

# summer school

Applications - Sustainable Energy Issues  
July 28<sup>th</sup> - August 8<sup>th</sup> 2003

Academia Engiadina, Samedan  
Switzerland



# 7<sup>th</sup> INTERNATIONAL SUMMER SCHOOL **SOLAR ENERGY 2003**



## **BACKGROUND**

Since 1982, *Summer Schools* on solar energy topics have been organised in Austria with the co-sponsorship of national and international organisations. These events, held in Igls/Tyrol (1982, 1985), Kaprun/Salzburg (1988) and Klagenfurt (1992, 1996, 2000), were devoted to solar energy resources, technologies, applications and economics.

The **7<sup>th</sup> International Summer School SOLAR ENERGY 2003** will take place for the first time in Switzerland at the Academia Engiadina in **Samedan**, from **July 28<sup>th</sup> to August 8<sup>th</sup> 2003**. It is an opportunity for post-graduates and young scientists to deepen their knowledge in diverse solar technologies through lectures, workshop activities and informal discussions with students and experts from many countries.



## FESTIVITIES

The welcome party on Monday July 28<sup>th</sup> is an opportunity to get to know each other. The Swiss National Day on August 1<sup>st</sup> will be celebrated in the village of Samedan.

## EXCURSION

An Excursion is planned on Saturday August 2<sup>nd</sup> to the "Clean Energy Tour St. Moritz – Piz Nair" (3057m), beginning with the location of the first electric light in Switzerland and ending with the newest PV installation.

## SPORTS AND ACTIVITIES

There are many possibilities for recreation in Samedan, including:

- Mountain-biking
- Inline-skating
- Hiking (all levels of difficulty)
- Leisure bicycling with special railway offers
- Surfing on the lakes of "Oberengadin"
- For nature friends a trip to the national park Zuoz or the "climate path" Pontresina
- Culture, museums, architecture

## CLIMATE

Samedan is situated in a high valley (1720m) surrounded by mountains. Temperature changes from night to day are extreme, up to 25°C. The climate is mostly dry and even in full sunshine not very hot so also bring warm clothes with you.



## PROGRAMME OVERVIEW

The programme will consist of panel sessions, public presentations, and workshop activities covering the following topics:

- **SURVEY OF RENEWABLE ENERGY APPLICATIONS**
  - Common technologies for renewable energy systems
  - Green building technologies for heating and cooling
  - Solar communities and cities
  - Solar thermal power plants
  - Wind energy potential and technologies
  - PV-conversion and applications
  - Hydropower plants
  - Biomass as an energy resource
  - Solar (photo-) chemistry
- **SUSTAINABLE ENERGY ISSUES**
  - Promising schemes for renewable energy utilisation
  - Geothermal energy
  - Ocean energy (thermal, waves, tides)
  - Sustainable solutions for developing countries
  - Energy storage (1): thermal heat storage
  - Energy storage (2): batteries & fuel cells
- **SPECIAL TOPICS**
  - Environmental impacts & hazards from using renewable energies
  - Market figures and trends
  - Economy of renewable energy technologies
  - Energy pay-back times of renewable energy technologies
  - Modelling renewable energy systems and performance evaluation
  - Policy issues in selected countries

## WORKSHOPS

Four workshops will be held, covering the topics of:

- 1 Energy- efficient buildings
- 2 Solar power plants
- 3 Photovoltaic systems
- 4 Solar thermal systems including storage

Summer School participants should indicate their preference for one of the workshops in their application form with the option to change at the time of registration at the summer school.

The workshops will offer basic information on the topic and provide a platform for the participants to do some design and analysis. The workshops are a valuable opportunity to apply what is learned at the lectures and discuss ideas with students and teachers.

The workshops are based on practical projects and also open for projects proposed by the students. The results will be presented in public.





## LOCATION AND DATE

The *Summer School Solar Energy 2003* will be held from **July 28<sup>th</sup> to August 8<sup>th</sup> 2003** at the Academia Engiadina, **Samedan**, Switzerland.

[www.samedan.ch](http://www.samedan.ch)

[www.academia-engiadina.ch](http://www.academia-engiadina.ch)



## ACCOMMODATION

For the participants we have a discounted block-reservation at the campus of the Academia Engiadina. The accommodation is single- and double bed-rooms. Toilets and showers are on the same floor. The use of sports-facilities and tennis courts is included. Students wishing to extend their stay (arriving earlier or departing later) should note this on the registration form. Discounted prices vary depending on the length of the extended stay.

## COSTS

- Tuition, documentation and coffee breaks: gratis
- Room and breakfasts: 400 €.
- Travel, lunch and dinner paid directly by the students.

## **ORGANISERS**

The Summer School is organised by the Swiss Federal Office of Energy in co-operation with the German Aerospace Centre, the Lund University, Sweden, the Technical University of Graz, the Institute for Interdisziplinäre Research and Continuing Education, Klagenfurt and the AEU GmbH, Wallisellen. Invitations have been extended to other organisations in order to broaden the basis and to make it a European event.

## **PARTICIPATION**

Participation at the Summer “School Solar Energy 2003” is open to students nearing graduation, scientists, engineers and architects. An acceptance procedure is necessary, since the number of participants is limited. Candidates will be selected on the basis of personal applications. Accepted participants will not have to pay any tuition. The participants are expected to work actively and be present at all times. Working documents and proceedings as well as coffee breaks and special events will also be financed by the organisers.

At the conclusion of the summer school students will receive a certificate of participation.

The working language will be English.

