



**UNIVERSITÉ  
DE GENÈVE**

**INSTITUT DES SCIENCES  
DE L'ENVIRONNEMENT**

Uni-Battelle, Bâtiment D, Route de Drize 7 | CH-1227 Carouge  
Tél : 022 379 01 07 | Web : [www.unige.ch/energie](http://www.unige.ch/energie)

**CYCLE DE FORMATION ÉNERGIE – ENVIRONNEMENT**

**SÉMINAIRE 2012-2013**

## **Trends and challenges of solar thermal energy**

**Elimar FRANK**

*Institut für Solartechnik SPF*

**jeudi 04 octobre 2012 à 17h.15**

**Auditoire D 185 - Bâtiment D - Uni Battelle**

7, route de Drize, 1227 Carouge

### *PROGRAMME DES PROCHAINES CONFÉRENCES :*

**Jeudi 18 octobre 2012 à 17h15**

« *Le financement de l'énergie solaire (PV et thermique)* »

Martial Bujard, Swissolar

**Jeudi 1 novembre 2012 à 17h15**

« *Trends and challenges of photovoltaic energy* »

Eduardo Lorenzo, Universidad Politécnica de Madrid

**Jeudi 15 novembre 2012 à 17h15**

« *Géothermie profonde : de la ressource à la valorisation* »

Michel Meyer, SIG et Bernard Lachal, Université de Genève

**Jeudi 29 novembre 2012 à 17h15**

« *Géothermie profonde : le projet AGEPP de Lavey* »

Gabriele Bianchetti, ALPGEO

**Jeudi 6 décembre 2012 à 17h15**

« *Débat sur la géothermie profonde et le gaz de schiste* »

Divers invités

## **L'orateur**

Dr. Frank is Head of Research and Member of the Board of Directors at the Swiss Institute of Solar Technologies SPF at the University for Applied Sciences HSR in Rapperswil (Switzerland) since 2007. His research group at SPF currently consists of about 25 scientists.

He holds degrees in physics and theology (Marburg University, Germany) and mechanical engineering (Kassel University, Germany). Dr. Frank is working in the field of solar thermal energy for 12 years.

He is member of the Board of Directors of ISES (International Solar Energy Society) and President of ISES Europe. He serves as Subtask Leader in an International Energy Agency Solar Heating and Cooling Program Task titled "Solar Process Heat for Production and Advanced Applications".

Since 2011, Dr. Frank is Board Member and co-founder of the Water Kiosk Foundation which implements solar thermal water disinfection systems in less developed countries.

## **La conférence**

In the recent years, the necessity of an expedient discussion about climate change and a transition of the energy supply and consumption became more evident. Several renewable energy technologies are needed and have to be further explored. Heat converted from solar irradiation ("solar thermal energy") can play a major role replacing fossil fuels as a major share of the energy demand in Switzerland is still used for oil and gas combustibles.

Looking at trends and challenges of solar thermal energy, the state of the art will be presented (with a focus on the Central European market), current research activities will be outlined and application fields for the use of solar thermal energy (systems) will be described with a special focus on solar process heat.

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