



training course on
**Seafloor Observatory Techniques
for
Marine Geohazard Monitoring**

**18-19 August 2009
Istanbul, Turkey**

Objective

- 1) To train young engineers and scientists on seafloor observatory techniques (addressed by the main second part of the course), and
- 2) To raise interest in seafloor observatories among stakeholders, funding organizations and public at large (addressed by the first part of the course).

Engineers and scientists from marine institutes and other related governmental and private organizations are invited to participate. High level officials from funding organizations in Turkey (e.g., TUBITAK, State Planning Department, TPAO, MTA) are invited to attend the introductory lectures (Part 1). The training workshop will follow a one-day symposium on “An overview of the research in the Sea of Marmara region over the last 10 years”, on the 10th Anniversary of 17 August 1999 Izmit Earthquakes.

Application deadline: 15 July 2009

The application forms can be downloaded from
<http://www.esonet.marmara-dm.itu.edu.tr/> or <http://www.emcol.itu.edu.tr/>
please send your application forms to ulgenum@itu.edu.tr

Tuesday, 18 August 2009

PROGRAM

Wednesday, 19 August 2009

Part 1: Introductory Lectures

- 9:30: History of marine geological research and the need for seafloor observatories in the Sea of Marmara (Namık Çağatay, ITU-EMCOL)
10:10 Disaster risk reduction studies of Istanbul Metropolitan Municipality (Ahmet Emre Basmacı, IBB)
10:50 Coffee break
11:10 Seafloor observatories for geohazard and oceanographic studies (Louis Geli, Ifremer, France)
11:50 Relations between geofluids and marine geohazards (Pierre Henry, CNRS, France)
12:30 Lunch

Part 2: Technical Lectures

- 14:00 Borehole monitoring: Case studies (Earl Davies, Canada)
14:40 Borehole instrumentation (Heinrich Villinger, University of Bremen, Germany)
15:20 Coffee break
15:40 Fluid sampling and analysis (Mike Tryon, Scripps Oceanographic Institution, USA)
16:20 Observatory design (Yves Auffret, Ifremer, France)
17:00 Acoustic sensors (Francesco Chierici, Italy)

Part 2: Technical Lectures (continued)

- 9:30 Gas-bubble monitoring (Carla Scabarbin, Ifremer, France)
10:10 Chemical sensors (Jean Luc Charlou, Ifremer, France)
10:50 Coffee break
11:10 SN-4 and Geostar stations for seafloor observations (Paolo Favali, INGV, Italy)
11:50 Ocean Bottom Seismometers (Cansun Güralp, Güralp Instruments, U.K.)
12:30 Lunch
14:00 KOERI cabled seafloor observatory stations in the Sea of Marmara (Cemil Gürbüz, Koeri, Turkey)
14:40: Tsunami observatories (Klaus Schleisiek, SEND Off-Shore Electronics GmbH)
15:20 DONET observatory network (Yoshiyuki Kaneda, JAMSTEC, Japan)
16:00 Coffee break
16:20 Discussion and exercises

Possible visit to Kandilli Earthquake Observatory to see data coming in from Marmara Sea observatory stations