

**Geo-Information for Environmental Education – Climate Change  
5<sup>th</sup> to 11<sup>th</sup> October 2008  
Kiel, Germany**

Dear colleagues,

I would like to inform you about our new COMENIUS course **Geo-Information for Environmental Education – Climate Change** which will be held in October 2008 in Kiel, Germany. This COMENIUS further education course (Lifelong Learning Programme) for teacher has been published in the Training Database of the European Commission with the reference number: DE-2008-785-001.

## **Course Information**

### **Objectives**

The climate research of the past 20 years has deepened our knowledge about worldwide climate change on many levels. It allows us to see with increasing regional differentiation how temperature, precipitation or extreme weather events such as floods, storms, heavy rain and drought are likely to change. Climate change will influence natural ecosystems, agriculture and highly urbanized regions via a large number of feedback mechanisms. The international further education course for teachers of secondary schools aims in teaching innovative methods and issues of environmental education on the base of an integrated view of ecosystems and land use pattern. That also includes the discussion of regional climate change, climate protection and sustainable development as well as regional policy and culture. The lessons will follow the principles of environmental education "Learn field Nature-Culture-Society" (Gerda Freise) with PC training and field excursion in the model region.

### **Methodology**

Trainees from different European countries will be taught in techniques of geodata management using Geo-Information Systems (GIS) in the model region of North Germany. The excursion of the course will introduce the participants to the coastal landscapes and ecosystems of North Germany and the small island Sylt to research the richness of its natural and cultural heritage and to show regional aspects and risks of climate change.

**Geo-Information Systems (GIS):** introduction to free GIS software products, querying geo-information, creating, editing and managing geodata, integrating GPS files from field mapping, analysing geodata to get new spatial information, presenting environmental information, applying digital terrain models, applying GIS for regional planning, renewable energy.

**Ecological excursion – Case study Sylt:** concepts of nature conservation in the wadden sea, mapping with GPS (Global Positioning System), evaluation of climate impacts on the island, cultural heritage of the island Sylt.

### **Follow up**

These compiled methods should be applicable to other European regions. At the end of the course the trainees will have got a comprehensive overview about the functionality of GIS software and its application for environmental education as well as regional aspects of climate change and arguments for climate protection. The teachers of secondary schools will be prepared how to use Geo-Information Systems in their own school region and how to manage geodata and accessing geo-information about climate change via internet.

## Here you will find more information about the Course programme:

COMENIUS - GRUNDTVIG Training Database

<http://ec.europa.eu/education/trainingdatabase/>

Please enter: **Search form**  
Reference number: **DE-2008-785-001**

Further course information:

- EDUCATION SECTOR OF THE TRAINING PARTICIPANTS
- PROGRAMME OF THE TRAINING ACTIVITIES (DAY BY DAY)
- TYPE OF CERTIFICATION
- INFORMATION ON COURSE SESSION
- HOST INSTITUTION
- IDENTIFICATION OF THE TRAINERS
- COURSE FEE

## Are you interested in our training activities?

We would like to invite you attending our COMENIUS course in Kiel 2008.  
If you are interested in the course, you should pre-register as soon as possible.

Please inform colleagues and friends in your school/university, in your region/country who may be interested in knowing more about regional aspects of climate change and application of Geo-Information Systems (GIS) in schools.

## Contact Persons:

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## Grants:

Regarding financial support for participants the National Agencies have to be contacted in time. Participants have to pay attention to the national deadlines!

Your own National Agency is your contact point for this course, and will provide an application form and further information on national application deadlines.

## Here you will find a list of National Agencies Adresses:

[http://ec.europa.eu/education/programmes/llp/national\\_en.html](http://ec.europa.eu/education/programmes/llp/national_en.html)

Best regards and see you in Kiel,

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