UNESCO OFFICE in VENICE
FLOODS OF NOVEMBER 1966

UNESCO Launches International Campaign
UNESCO ESTABLISHES LIAISON OFFICE IN VENICE, 1973
UNESCO Regional Office for Science and Technology for Europe (ROSTE)

UNESCO ESTABLISHES ROSTE IN VENICE IN 1988

Palazzo Loredan degli Ambasciatori
UNESCO Office in Venice
Regional Bureau for Science and Culture in Europe (BRESCE)

UNESCO ESTABLISHES A UNIFIED OFFICE IN VENICE, 2002
UNESCO Office in Venice
Regional Bureau for Science and Culture in Europe

EDUCATION
NATURAL SCIENCES
SOCIAL & HUMAN SCIENCES
CULTURE
COMMUNICATION & INFORMATION
U.O.V’s main mission:

TO FOSTER COOPERATION, CONTRIBUTE TO CAPACITY BUILDING AND PROVIDE SPECIALIZED EXPERTISE IN THE NATURAL SCIENCES AND CULTURE WITHIN THE CENTRAL AND EASTERN EUROPEAN REGION…

AND ESPECIALLY IN SOUTH EAST EUROPE AND SOUTH MEDITERRANEAN COUNTRIES
U.O.V. principal means of action

TRAINING NEW GENERATION OF SCIENTISTS
U.V.O.
principal means of action

TRAINING NEW GENERATION OF SCIENTISTS

POOLING OF EXPERTISE - NETWORKING
U.V.O.
principal means of action

TRAINING NEW GENERATION OF SCIENTISTS

POOLING OF EXPERTISE - NETWORKING

SHARING OF RESOURCES AND FACILITIES
U.V.O.
principal means of action

TRAINING NEW GENERATION OF SCIENTISTS

POOLING OF EXPERTISE - NETWORKING

SHARING OF RESOURCES AND FACILITIES

MULTILATERAL COOPERATION

PARTNERSHIP and COMPLEMENTARITY OF ACTION
U.V.O.
principal means of action

TRAINING NEW GENERATION OF SCIENTISTS

POOLING OF EXPERTISE - NETWORKING

SHARING OF RESOURCES AND FACILITIES

MULTILATERAL COOPERATION
UNESCO OFFICE IN VENICE
Regional Bureau for Science in Europe "map"

The main mission of the UNESCO Office in Venice is to foster cooperation, to contribute to capacity building and to provide specialized expertise in the fields of natural sciences and culture within the Central and Eastern European region, and in particular the countries of South Eastern Europe. Its programmes seek to build human and institutional capacities in the basic and engineering sciences, foster collaborative research in the field of the environment, especially in ecological and water sciences, contribute to the protection of cultural heritage, and promote cultural diversity and intercultural dialogue.

Features:
- [FELLOWSHIPS]
- [INTERNATIONAL INTERNET FORUM] of Young
- [INTERNATIONAL SEMINAR] on "Science, Technology and Economic Development in South-East Europe"

Just published:
- [TRAINING SEMINAR FOR RESEARCH MANAGERS AND RESEARCH ADMINISTRATORS FROM SEE COUNTRIES]

Next:

Howard Moore
Director

Activities:
- GRID: THE KEY TO SCIENTIFIC COLLABORATION
- UNESCO-ROSTE FORUM
- www.unesco.org/venice
E-LEARNING
IN RENEWABLE ENERGY

IN EASTERN EUROPEAN COUNTRIES, the ARAB STATES, AUSTRALIA, INDONESIA and CHINA
This UNESCO OFFICE in VENICE initiative intend to bring to the Eastern European countries, the Arab states, Australia, Indonesia and China advanced courses in Renewable Energy, through the use of a wideband telecommunications infrastructure.
The idea is to use the Internet e-learning system in synchronous mode for training the “managers” of the different energy technologies. At the same time the same learning materials can be adapted to be used by internet in asynchronous mode and other e-learning materials can be developed for training the “operators and installer of renewable energy systems”. This means that the training materials for managers will be implemented with specific learning materials that local experts can use for training their operators.
The proposed E learning in Renewable energy field wants to test the feasibility of a mixed mode to approach teaching by giving to the participants the possibility of attending classes with a professor teaching and with the possibility to ask questions during classes (synchronous service). Moreover, the participants have the possibility to test their preparation offline by solving problems and answering questions prepared by the teachers, and to have access to a set of slides, which should be linked with video clips derived from the lectures (asynchronous service).
Target

The distant learning courses will be addressed to **3 target users**:

- RENEWABLE ENERGY MANAGERS
- RENEWABLE ENERGY OPERATORS
- RENEWABLE ENERGY TECHNICIANS
The main objective of the courses for renewable energy managers is to provide know-how in the development & management of renewable energy systems leading to:

1. REDUCTION IN GREENHOUSE EFFECT
2. SUSTAINABLE DEVELOPMENT
3. PROMOTE THE RENEWABLE ENERGY TECHNOLOGY MARKET
Objectives...

The creation of a cost-effective mechanism for the wider dissemination of information and effective linkage within and among the Eastern European, South Mediterranean and Asian countries with Europe.

Training of students carrying out their research studies in Renewable Energy in countries where high-quality tuition may not be readily available.

Creation of a special website for the wider dissemination of information and effective linkage within and among the target countries.
DESCRIPTION OF ACTIVITIES
TRAINING COURSE

for technical officials and decision makers, designers and operators, of systems using renewable energies, using video and audio conferencing by Internet. The course is comprised of modules and organized under topics. Lectures will be given on the basis of a scheduled timetable and are to be delivered over a period of 10 months.
TECHNOLOGICAL WORKSHOP

will be held in the capital cities of the participating countries with the participation of the public and private companies funding the project.
Technological partners

UNESCO-BRESCE
FAO-Food Agriculture Organization
ENEA – Italian Agency for New Technology, Energy and Environment (scientific and technical coordinator)
ENEL – Holding company
CEI-Central European Initiative
ISES- International Solar Energy Society
May 2006 - May 2007
An ad hoc committee will be established with directors of Institute of the participating countries and the Partners of the project.

Meeting for the practical organization of the project, between participating institutes, will be held in Venice.
Participating countries

ALBANIA, ARmenia, AUSTRALIA, BAHRAIn, BELARUS, BOSNIA & HERZEGOVINA, BULGARIA, CHINA, CROATIA, CZECH REPUBLIC, EAU, EGYPT, FYR OF MACEDONIA, HUNGARY, INDONESIA, IRAN, JORDAN, MOLDOVA, MOROCCO, OMAN, PALESTINE, POLAND, ROMANIA, RUSSIA, SERBIA & MONTENEGRO, SLOVAKIA, SLOVENIA, TUNISIA, TURKEY, UKRAINE, UZBEKISTAN, YEMEN
The training courses will be held on the following renewable energy fields:

**ENERGY AND SUSTAINABLE DEVELOPMENT**
- THERMO SOLAR
- PHOTOVOLTAIC
- BIOMASS/ BIOGAS
- WIND ENERGY
- HYDROGEN AND FUEL CELLS
- GEOTHERMAL
- SMALL HYDRO POWER

**ADVANCED TECHNOLOGIES FOR ENERGY EFFICIENCY FOR HOUSES**
Lectures are given on the basis of a pre-determined time table and are delivered through Internet with a guaranteed Quality of Service. In case the receiving earth satellite stations are simple DVB receivers the interactivity with students would be guaranteed by using Internet for real/time email interaction with the teacher.
E-LEARNING COURSES
ON RENEWABLE ENERGY
This proposal is based on the statement that in order to promote the renewable energies at least three different professional skills have to be promoted:

- the decision makers or technical officers belonging to public administration who have to make decisions and find the founding in order to promote the renewable energies in their country;

- the designers who need to design the best renewable energy plants for the particular location taken into considerations;

- the operators who need to know how to operate and, above all, how to maintain the renewable energy plants.
COURSES PROGRAMME, STRUCTURE AND CONTENTS

UNESCO E-LEARNING COURSES ON RENEWABLE ENERGY

By Internet

Scientific coordination for the project
ENEA (A. Moreno, F.P. Vivoli)
<table>
<thead>
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<th>Asynchronous connection and duration (hours)</th>
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It is foreseen a general introduction to the renewable energies drivers and “scenario”

The workshops, which will follow the e-learning courses, will have the aim to investigate possible business among the technology vendors and the decision makers.

The technology vendors and ENEA are also available for hosting stages in order give the capability of designing, installing, or simple using the different technologies.
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