



<http://www.eurisy.asso.fr/>

Ninth Information Youth Forum
CLIMATE CHANGE: PAST AND FUTURE

Parque de las Ciencias, Granada, Spain
1-4 November 2001

EXHIBITIONS

British National Space Centre – BNSC

<http://www.bnsc.gov.uk/>

European Space Agency – ESA

<http://www.esa.int/>

Instituto Nacional de Técnica Aeroespacial - INTA, Spain

<http://www.inta.es/>

Norwegian Space Centre

<http://www.spacecentre.no/>

Thursday, 1 November 2001

Arrival of teams and registration

10:00 Setting up of exhibition and projects

13:00 *Lunch*

14:30 Setting up of exhibition and projects

17:30 **Inauguration of the Forum by**
Prof. Cándida Martínez, President of Consorcio Parque de las Ciencias

18:00 **Opening Session**
Ms Valerie A. Hood, Secretary General of EURISY
Mr José M. Quintana, Consejo Superior de Investigaciones Científicas
Mr Ernesto Páramo Sureda, Director, Consorcio Parque de las Ciencias

19:00 EDUSPACE demonstration by Juerg Lichtenegger, ESA/ESRIN

20:00 *Dinner*

Friday, 2 November 2001

09:00 **Keynote Addresses**

The social impact of forecast on human societies
Jacqueline Milliet, CNRS, France -
Swiss Museum of Transport and Communication

and

09:30 Climate change: Past and future
Lydia Dümenil Gates, Lawrence Berkeley National Laboratory, USA

10:00 *Coffee break*

10:30 **Climate Change:**

The role of Sun in climatic change
Alex Kirby, BBC Environment Correspondent

Paal Brekke, Deputy Project Scientist for Soho (ESA)

Man's influence on climatic change
Robert Sadourny, Laboratoire de Météorologie Dynamique, Paris (France)

Open debate

13:00 *Lunch*

14.00/18:00 Visit to Alhambra

18:30 - 20:00 Students presentations to Jury

20:00 *Dinner*

Saturday, 3 November 2001

- 09:00 Ozone
Petteri Taalas, Finnish Meteorological Service (FMI)
- 09:45 Arctic Climate Change
*Stein Sandven and Ola M. Johannessen,
Nansen Environmental and Remote Sensing Center, NERSC, Norway*
- 10:30 *Coffee break*
- 11:00 Climate monitoring from space

Prof. Hartmut Grassl, Max Planck Institute for Meteorology, Germany

and

*Mr Martin Werscheck, Project Manager for Satellite Application
Facility on Climate Monitoring, Deutsche Wetterdienst*
- 12:30 Open debate
- 13:00 *Lunch*
- 14:00 Antarctic and Arctic ice caps
Chris Rapley, British Antarctic Survey
- 14:45 Disaster monitoring and mitigation
Juerg Lichtenegger, ESA/ESRIN
- 15:30 SOLARMAX: a 40 minute documentary that tells the story of humankind's struggle to understand the sun and its impact on the Earth's environment.
Introcuton by Paal Brekke, Deputy Project Scientist for Soho (ESA)
- 16:15 *Coffee Break*
- 16:45 Students presentations to Jury
- 19:00 Visit to Parque de las Ciencias
- 20:00 *Dinner at Restaurant Paco Martin de Granada*
Prize giving ceremony

Sunday, 4 November 2001

- Dismantling of Exhibition
- Free time to visit Granada
- Departure of groups

List of Projects

AUSTRIA

LINK TO AUSTRIA

Teacher: **Stefan WAGNER**

Students: **Christian STREICHER**
Mark COBB
Thomas SCHMÖLZER

School: **Hoehere Technische Bundeslehranstalt, Eisenstadt**

Project: **Satellites in climate monitoring and prediction**
A brief historical outline of climate research, and an
explanation of current and future satellite systems.
The processing and evaluation of data received.

DENMARK

LINK TO DENMARK

Teacher: Flemming SIGH,

Students: Maj Eline DALSGAARD
Andreas KNUDSEN

School: Odense Katedral skole, Odense

Project: Deforestation – a part of the Climate discussion
The Climate discussion has many points of view, sunspots,
car pollution, contrails from the aeroplanes, etc.
We have especially dealt with the deforestation "seen" from
the satellites, using materials from the test site of
www.eduspace.eurisy.org as a platform.

FINLAND

LINK TO FINLAND

Students: Hansi HARJUNHARJA
Katrianne LEHTIPALO
Pirta LAUERMA
Reetta NIKKANEN
Maria RØSENLEW
Mikko AIKIO
Magnus MYRÉEN

School: Utsjoen saamelaislukio, Utsjoki

Project: Research of the stratospheric ozone

Utsjoki summer high school as organizer of ozone research, ozone layer and the structure of atmosphere, physic and chemistry of ozone layer, measuring ozone and results, etc. other things happened in Utsjoki summer high school (environmental art, etc.)

FRANCE

LINK TO FRANCE

Teachers: Claude CASTELIN
Gérard NIOT

Students: Mathieu GAUTIER
Cécile HEBERT
Hawa TOUNKARA
Vu-Hung LE

School: Ecole Nationale de Physique, Chimie, Biologie, Paris

Project: Desertification: Chad Lake

NORTHERN IRELAND

LINK TO NORTHERN IRELAND

Teachers: Robert HILL
Alan McMURRAY

Students: Ryan WATTY
William ECCLESTON
Thomas CRAWFORD
Brian JOHNSTON

School: Belfast Boys' Model School,

Project: Satellite and Climate Change

How satellite data can be used in climatology. Looking at ESA and their satellite information, eg. Global ozone monitoring, ERS 1 & 2.

NORWAY

LINK TO NORWAY

Teacher: Herluf GRÜNER

Students: Erlend UNDHJEM
Kay Røbekk HAMMERØ
Martin Olsen HØYE

School: Romsdal Videregående Skole, Molde

Project: Changes in the North Atlantic Gulf Stream

Consequences of the changes in the Gulf Stream for Norway and other countries.

SPAIN (1)

LINK TO SPAIN

Teachers: Ana Maria ZURITA LÓPEZ
Gracia Maria ESPUELAS SANCHEZ

Students: Gema Ben ROMERO
Silvia HERRERA ROMAN

School: I.E.S. "José Caballero"

Project: The implication of technology in the ethics-ecologist project
The heating of the planet can be a direct consequence of the intervention of man in the environment. We value that intervention from ethics criteria, and outline a didactic unit on environmental education.

SPAIN (2)

Teacher: Victor J. PANIEGO

Students: David BRONCANO
Maria Dolores GONZALEZ

School: I.E.S. Doctor Francisco Marin

Project: La Sierra de Segura y los bosques ante el cambio climático.
Es un trabajo audiovisual sobre la necesidad de conservar los bosques como consumidores de CO2 fabricantes de oxígeno en un entorno adecuado.

SWITZERLAND

LINK TO SWITZERLAND

Teacher: Urs ZIMMERMANN

Students: Lukas HERZOG
Jerry PADAVATH
Mirco SCHLATTER
Philipp SITA

School: Kantonsschule Zuercher Unterland, Buelach

Project: Permafrost and Climate Change in Switzerland
Melting of permafrost is one of several aspects in the present discussion of the ongoing climate change with its gradual rise of the Earth's mean air temperature. In alpine regions permafrost holds together and stabilizes scree and rock debris at high altitudes and near glaciers. In Switzerland some areas near (and, occasionally even on) permafrost are cultivated and inhabited or used for tourism. Thawing of permafrost causes a growing risk for villages and landscapes through debris flows and landslides. It might be feasible to forecast such events using spaceborne differential SAR imagery.

GREAT BRITAIN

LINK TO UK

Students: Victoria PARKINSON
Sophie NORTH
Simon BONE
Alex LYDALL

School: Oakham School, Melton-Mowbray

Project: How important is the Kyoto Agreement regarding the possibility that the greenhouse effect doesn't exist

Does the greenhouse effect exist and if so, to what extent. Also considering the likelihood of the Kyoto Agreement being made between enough countries for significant progress to be made.