Bienvenue à Sainte Croix !

Workshop on CarboEurope / CarboOcean school projects
Monastère de Sainte-Croix, 21-24 March 2005
The Challenge

Giving the fascination for science

Contributing to responsible citizenship

Raising attractiveness of scientific careers
An educational activity inside research projects

- CarboEurope/Oceans integrated projects:
  - big questions for climate science: understanding & quantifying the role of Europe & oceans in the global carbon cycle
  - big size (90/40 partners) & budget (16/14,5 M€)
  - 5-year duration (2004/5 to 2008/9)
- New contractual obligation in FP6: feedback to society integrated to research
- Here: small experimental activity (~80 k€) focused on secondary schools
Helping European young people to understand climate change research

- What we know, what we discuss, what we don’t know
- How scientists work on the field
- European co-operation in research
- Link with daily life & local community
- Link with social, economical, political dimensions (Kyoto etc.)
Focus

- Secondary schools teachers
- Project-based approaches based on human interaction rather than approaches based on website/materials
- Decentralised activities run by research institutions: local approaches within a European common frame / network
School projects

- Committed students (12-18 y.old)
- Interdisciplinary team of teachers
- Over several weeks or months
- Very flexible
- Networking at European level
- Scientists as mentors
Examples of activities

- Learning science through doing it
  - Hands-on activities run by teachers
  - Small experiments supported by scientists (use of instruments, on-line data...)

- Linking science with society:
  - Implications in daily life & local community
  - Taking action to reduce emissions

- Reporting science: interviewing scientists, visiting experiments, communicating towards local public (school newspaper, exhibition etc.)
Support materials

www.carboeurope.org/education:

- Call for school projects
- Booklet for teachers: overview of global change research & EU contribution through CarboEurope & CarboOcean
- Read & publish results & resources
- Follow scientific expeditions (cruises): « adventure-based » learning incentive (Introductory folder + interactive follow-up)
- French & English to start
How to make school projects happen?

- Individual basis: interested scientists set links with 1 or 2 schools nearby
- Existing European school network: Young reporters for the environment
- Regional schemes run by (or with) research institutions (teacher training, information days & special events...)
Main workshop questions

Sharing experience & methods about:

- How to best encourage school projects about global change research?
- How to best organise regional programmes supporting such school projects from research institutions?
- How to interact with young people?

And co-training ourselves by doing that
Agenda

- Today: school projects
- Tuesday: regional programmes
- Wednesday: analysis of practice based on personal experience (think of an example)
- Thursday: preparing concrete projects

9h-13h – lunch 13h-14h
16h-19h – dinner 19h-20h

Dinner Wednesday evening in Die
Participants

- 8 out of 20 not connected to CE/CO
- 9 scientists involved in research / 3 school teachers-trainers / 8 from science education/communication projects, some well established (NaT, RiR, Science live, YRE) others in preparation (PIKEE, MP teacher training project, Klimateam)
- A 3d IP represented (ALARM)
Motivations & expectations

For working with schools:
- reach school children with our results / transfer climate research knowledge to pupils
- Raise attractiveness of science, make the students active & enthusiastic about science
- Increase young people knowledge & understanding of global change
- Develop citizenship
Motivations & expectations (2)

For networking at the European level:
- Sharing experience & good practice
- Setting-up collaborations
- Identify a common overall strategy, create links between various IPs
- Exchanging on difficulties / obstacles / solutions. How to overcome the usual limits: lack of time, lack of know-how, individual initiative only, organisational problems…
- Teacher training
- Raising funding
Expected outputs

- For scientists: guidelines / recommendations for mentoring of school projects
- For schools: final text of call for projects
- For regional programmes: concept paper & model of planning/funding proposal + draft project proposal for EU funding
- Other possible developments:
  - European teacher training project
  - Computer game project
  - «Klimateam» concept (network of schools measuring GHG)
An experimental activity
(we hope the chemical reaction will be nice)

Renée-Paule as catalyst

Have fun, enjoy Clairette, be dedicated like monks and engage nice projects!