



# 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

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- **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](http://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!**