

Presentations

- Who are you (name, country, profession, organisation)
- What kind of pupil were you when you were 15?
- What were your relations to other young people & to adults/teachers?
- What were your life & work projects and how did you consider school towards that?
- What were your motivations to learn?

Teaching & learning: transmissive approach

One teacher



Decides topic, object, method



Individual students in one group (class)

Traditional evaluation

(external measuring of performances)

Constructivist approach

Teachers / Students in groups



Shared choice of topics, objects & methods



Investigating a question

Seeking solutions

Formulating answers to the group & towards society

On-going internal formative evaluation

Sommative evaluations on knowledge & skills

Educational goals

Disciplinary goals

SCIENCE / KNOWLEDGE

*Can be top-down &
transmissive*

Content-based

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Interdisciplinarity goals

**CITIZENSHIP / SKILLS &
SYSTEMIC THINKING**

*Can only be bottom-up
and constructivist*

Process-based

Learning scientific notions

Changing representations of science

from boring to exciting, from theoretic to practical, from abstract to concrete

Connecting notions with a big society challenge: global change

Understanding complexity

Developping the desire and capacity

to learn by oneself. to understand the world. to act in the society

Co-education through school projects : which needs for the actors?

What are the respective roles of teachers & scientist?

What are the main needs / expectations of teachers?

What are the main needs / expectations of scientists?

Group 1 : here

Marc Eyer

Volker Hammen

Joachim Dengg

Andrea Volbers

Monika Strömgren

Philippe Saugier

Group 2 : downstairs piano

- Vibeke Birkmann
- Julie Jordan
- Max Hilhorst
- Jutta Neumann
- Annette Freibauer
- Antonio Raschi
- Phil Smith

Group 3 : downstairs fireplace

- Michael Schallies
- Marilyn Brodie
- Claudia Hillinger
- Rona Thompson
- Renée-Paule Blochet
- Jane Martin
- Kim Pilegaard

Peripheral needs

Central needs