



DISSEMINATING INQUIRY-BASED SCIENCE
AND MATHEMATICS EDUCATION IN EUROPE

The Fibonacci Project – First European Conference

Raising Awareness about Inquiry Based Science and Mathematics Education in Europe

21-22 September 2010 , University of Bayreuth, Germany



This project has received funding from the European Union's Seventh Framework Programme.

Tuesday, 21 September 2010

08:30 Bus shuttle from Arvena and Ramada Hotel

09:00 Registration Conference Office (Foyer)

Welcome

Peter Baptist
09:30 Welcome and presentation of the conference programme H 18

Stefan Jablonski
09:40 Opening address H 18

Peter Baptist (Chair)

Plenary session 1: Science and mathematics education in Europe: a challenge and a proposal

Dusan Sidjanski
09:50 European cultural heritage and the role of science and mathematics H 18

David Jasmin
10:20 Presentation of the Fibonacci project H 18

10:40 Coffee break Foyer

Michèle Artigue (Chair)

Plenary session 2: Relevance of mathematics and science education for society

Ulrich Trottenberg
11:00 Mathematical education meets reality and future H 18

Pierre Léna
11:45 Science for all, a reasonable goal? H 18

12:30 Lunch Foyer

Parallel workshops

Peter Baptist, Petar Kenderov, Kenneth Ruthven
14:00 Deepening the specificities of scientific inquiry in mathematics S 82



Tuesday, 21 September 2010

- Wynne Harlen, David Jasmin*
14:00 Deepening the specificities of scientific inquiry in natural sciences H 17
- Ida Guldager, Phil Hingley, Petra Skiebe-Corrette*
14:00 Implementing and expanding a reference centre S 80
- Janet Ainley, Tina Jarvis*
14:00 Cross disciplinary approaches H 19
- Leo van den Bogaert, Konrad Krainer, Hannu Salmi*
14:00 Using the external environment of the school H 20
- 16:00 Coffee break Foyer

Wynne Harlen (Chair)

Plenary session 3: Reports on the workshops

- 16:30 Short summaries of the five workshops H 18
- 17:15 Bus shuttle to Arvena and Ramada Hotel
- 18:45 Bus shuttle from Arvena and Ramada Hotel

Evening Event

- 19:30 Conference Dinner Thurnau Castle
- 23:00 Bus shuttle to Arvena and Ramada Hotel



Wednesday, 22 September 2010

09:00 Bus shuttle from Arvena and Ramada Hotel

09:30 Poster session Foyer

09:30 Arts exhibition Foyer

09:30 Press conference S 78

Peter Baptist (Chair)

Plenary session 4: Mathematics and science education – political goals

Ludwig Spaenle

10:00 Mathematics and science education – a key factor for our future H 18

10:30 Coffee break Foyer

Pierre Léna (Chair)

Plenary session 5: Inquiry-based science and mathematics education

Günter M. Ziegler

11:00 How can mathematics solve problems? H 18

Wynne Harlen

11:45 Implementing inquiry-based learning in science education H 18

Michèle Artigue

12:15 Science, mathematics and ICT H 18

Agueda Gras-Velazquez

12:45 Presentation of Scientix H 18

13:15 Lunch Foyer

Parallel workshops

Ed van den Berg, Franz X. Bogner, Dan Sporea

14:30 ICT and virtual environment for science education H 19

Peter Baptist, Paul Drijvers, Volker Ulm

14:30 ICT and virtual environment for mathematics education H 20



Wednesday, 22 September 2010

	<i>Marie-Claire Certiat, Patricia Corieri, Wolfgang Gollub</i>	
14:30	Involving the private sector (foundations and companies) in science and mathematics education	S 80
	<i>Gerd Bergman, Martin Braund, Anders Jidesjö</i>	
14:30	Transition from primary to secondary school	H 17
	<i>György Darvas, Eugen Jost, Carsten Miller</i>	
14:30	Arts and inquiry-based science and mathematics education	S 82
16:00	Coffee break	Foyer

Closing session

	<i>Konrad Krainer</i>	
16:30	Summary of the conference	H 18
	<i>Peter Baptist</i>	
16:50	Conclusions and perspectives	H 18
17:30	Shuttle to the historic centre of Bayreuth	

Closing ceremony

Government building of Upper Franconia

	<i>Wilhelm Wenning</i>
18:00	Welcome address
18:15	<i>Peter Baptist</i> Bayreuth impressions
18:30	Reception

Concert & guided tour

Margravian Opera House

19:30	Wooden Voices
21:00	Bus shuttle to Arvena and Ramada Hotel

