

## European launch conference of the Fibonacci project

### "Raising awareness about Inquiry Based Science and Mathematics Education (IBSME) in Europe"

September 21st – September 22nd 2010

## Programme

### Monday, September 20<sup>th</sup>, 2010

Arrival	RAMADA Hotel Residenzschloss Erlanger Straße 37 95444 Bayreuth Germany +49 (0) 921 7585 0	ARVENA KONGRESS Hotel Eduard-Bayerlein-Straße 5a 95445 Bayreuth Germany +49 (0) 921 727 0
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16:00 – 18:00 Meeting of the Scientific Committee

### Tuesday, September 21<sup>st</sup>, 2010

09:00 Registration

#### Welcome

09:30	Welcome and presentation of the conference programme	Peter Baptist Fibonacci scientific coordinator mathematics Germany
09:40	Opening address	Vice President of the University of Bayreuth Stefan Jablonski Germany

Plenary session 1		
Science and mathematics education in Europe: a challenge and a proposal		
Chairperson: Peter Baptist, Germany		
09:50	Keynote presentation	Dusan Sidjanski President of the European centre for culture, Special adviser to the EU President Switzerland
10:20	Presentation of the Fibonacci project	David Jasmin Fibonacci European coordinator France
10:40 Coffee break		
Plenary session 2		
Relevance of mathematics and science education for society		
Chairperson: Michèle Artigue, France		
11:00		Ulrich Trottenberg Fraunhofer Institute for Algorithms and Scientific Computing SCAI Germany
11:45		Pierre Léna Delegate for education Académie des sciences France
12:30 Lunch		
Parallel workshops on the five Fibonacci common topics		
14:00	Deepening the specificities of scientific inquiry in Mathematics	Peter Baptist University of Bayreuth Germany, Petar Kenderov Academy of Sciences Bulgaria, Kenneth Ruthven University of Cambridge United Kingdom, Report by Volker Ulm University of Augsburg Germany

14:00	Deepening the specificities of scientific inquiry in Natural Sciences	David Jasmin La main à la pâte French Academie of Sciences INRP, ENS France, Wynne Harlen University of Bristol United Kingdom Report by Susana Borda La main à la pâte France
14:00	Implementing a Reference Centre	Petra Skiebe-Corrette Free University of Berlin, Germany, Phil Hingley University of Leicester United Kingdom, Ida Guldager University College South Denmark, Report by Nicola Stollhoff Free University of Berlin Germany
14:00	Cross disciplinary approaches	Tina Jarvis University of Leicester, United Kingdom, Janet Ainley University of Leicester United Kingdom, Report by Frankie McKeon University of Leicester, United Kingdom
14:00	Using the external environment of the school	Hannu Salmi University of Helsinki Finland, Leo van den Bogaert The Unschooled Mind Company The Netherlands, Konrad Krainer University of Klagenfurt Austria, Report by Arja Kaasinen University of Helsinki Finland

16:00	Coffee break	
Plenary session 3 Report on the workshops Chairperson: Wynne Harlen, United Kingdom		
16 :30	Reports (5 minutes each) on the workshops	
17:15	Adjournment of the conference	
19 :30	Conference dinner	Thurnau

**DAY 2**  
Wednesday, September 22<sup>nd</sup>, 2010

09:30	Poster session Arts exhibition	
09:30	Press conference	Peter Baptist Germany, David Jasmin France

Plenary session 4 Mathematics and Science Education – political goals Chairperson: Peter Baptist, Germany		
10:00		Ludwig Spaenle President of the Standing Conference of the Ministers of Education and Cultural Affairs of the Länder in the Federal Republic of Germany (KMK)

10:30	Coffee break	
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Plenary session 5 Inquiry-Based Science and Mathematics Education as a methodological framework Chairperson: Pierre Léna, France		
11:00	Inquiry-based approach in mathematics	Guenter Ziegler Director of the Media Office of the German Mathematical Society and deputy chair of the Berlin Mathematical School Germany
11:30	Implementing inquiry based learning in science education	Wynne Harlen University of Bristol United Kingdom

12:00	Science, mathematics and ICT	Michèle Artigue University Paris Diderot France
12:30	Lunch	
Parallel sessions on Innovative issues		
14:00	ICT and virtual environment for science education	Ed van den Berg University of Amsterdam The Netherlands, Franz X. Bogner University of Bayreuth Germany Dan Sporea National Institute for Lasers, Plasma and Radiation Serbia, Report by Bas Higler Hogeschool van Amsterdam The Netherlands
14:00	ICT and virtual environment for mathematics education	Peter Baptist University of Bayreuth Germany, Volker Ulm University of Augsburg Germany, Paul Drijvers Freudenthal Institute Utrecht The Netherlands, Report by Jenny Sendova Bulgarian Academy of Sciences Bulgaria
14:00	Involving the private sector (foundations and companies) in science and mathematics education	Patricia Corieri Free University of Brussels Belgium, Wolfgang Gollub Gesamtmetall Berlin Germany, N.N. Solvay Belgium Report by Philippe Leonard Free University of Brussels Belgium

14:00	Transition from primary to secondary school	Gerd Bergman Royal Swedish Academy of Sciences Sweden, Anders Jidesjö University of Linköping Sweden, Maurice Galton N.N. Cambridge University or University of York United Kingdom Report by Jan Schoultz University of Linköping Sweden
14:00	Arts and IBSME	Carsten Miller University of Bayreuth Germany, György Darvas Institute for Research Organization of the Hungarian Academy of Sciences Hungary, Eugen Jost Artist and Teacher Switzerland, Report by Doris Bocka University of Bayreuth Germany
16:00	Coffee break	
Closing session		
16:30	Summary of discussions	Konrad Krainer University of Klagenfurt Austria
16:50	Conclusions of the conference	Peter Baptist University of Bayreuth Germany
17:00	End of meeting	

18:00	Reception of the District Government of Upper Franconia	Wilhelm Wenning President of the District Government of Upper Franconia
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19:30	Visit of the Opera House	
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Thursday, September 23<sup>rd</sup>, 2010

Departure	
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09:30 – 12:30	Fibonacci Steering Committee meeting
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Departure (members of the Steering Committee)	
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## List of Speakers

Artigue	Michèle	Université Paris–Diderot	France
Baptist	Peter	Fibonacci scientific coordinator mathematics University of Bayreuth	Germany
Bergman	Gerd	Royal Swedish Academy of Sciences	Sweden
Corieri	Patricia	Von Karman Institute for Fluid Dynamics	Belgium
Darvas	György	Institute for Research Organization of the Hungarian Academy of Sciences	Hungary
Galton	Maurice	University of Cambridge	United Kingdom
Glackin	Melissa	King's College London	United Kingdom
Gollub	Wolfgang	THINK ING, Employers' associations in the German metal and electrical (M+E) industry	Germany
Harlen	Wynne	University of Bristol	United Kingdom
Jablonski	Stefan	Vice President of the University of Bayreuth	Germany
Jarman	Ruth	Queen's University Belfast	United Kingdom
Jarvis	Tina	University of Leicester	United Kingdom
Jasmin	David	Fibonacci European coordinator, La main à la pâte	France
Jost	Eugen	Artist and teacher, Thun	Switzerland
Kenderov	Petar	Academy of Sciences	Bulgaria
Léna	Pierre	Académie des sciences	France
Ruthven	Kenneth	University of Cambridge	United Kingdom
Salmi	Hannu	University of Helsinki	Finland
Sidjanski	Dusan	President of the European centre for culture Special adviser to the EU President	Switzerland
Skiebe- Corrette	Petra	Free University of Berlin	Germany
Spaenle	Ludwig	President of the Standing Conference of the Ministers of Education and Cultural Affairs of the Länder in the Federal Republic of Germany (KMK)	Germany
Trottenberg	Ulrich	Fraunhofer Institute for Algorithms and Scientific Computing SCAI	Germany
Ulm	Volker	University of Augsburg	Germany
van den Berg	Ed	University of Amsterdam	The Netherlands
Wenning	Wilhelm	President of the District Government of Upper Franconia	Germany
Ziegler	Guenter	Director of the Media Office of the German Mathematical Society, Deputy chair of the Berlin Mathematical School	Germany