

# Learning by Doing: Experiments and Instruments in the History of Science Teaching

An international symposium in Regensburg, Germany, 4-5 April 2009

## Program

### Saturday, 4 April

12:30 - 13:30 Registration

13:30 - 14:30 Opening session of the conference

**Christoph Meinel**, History of Science Unit, University of Regensburg

**Josef Reisinger**, MNU - Deutscher Verein zur Förderung des mathematischen und naturwissenschaftlichen Unterrichts

**Günter Trüb**, Ministerialbeauftragter für die Gymnasien, Oberpfalz

**Peter Heering**, University of Oldenburg (Introduction to the Conference)

Practical Information

14:30 - 15:05 **Lissa Roberts**, University of Twente, The Netherlands

*Instruments of Science and Citizenship: Science Education for Orphans during the Late Eighteenth Century*

Coffee

15:40 - 16:15 **Paolo Brenni**, Fondazione Scienza e Tecnica, Florence, Italy

*Were Didactic Scientific Instruments really used? The Evolution of Teaching Physics between 1850 and 1930*

16:15 - 16:50 **Josep Simon**, Instituto de Historia de la Medicina y de la Ciencia López Piñero, Valencia, Spain

*Science Pedagogy and the Material Culture of the Nineteenth-Century Classroom: Working with Collections in the Valencian Secondary Schools*

Coffee

17:20 - 17:55 **Jan Frercks**, University of Lüneburg, Germany  
*Showing Procedures, Demonstrating Facts: Epistemological Uses of Chemistry Courses ca. 1800*

17:55 - 18:30 **Pere Grapi**, Universitat Autònoma de Barcelona, Spain  
*The role of Chemistry Textbooks and Teaching Institutions in France at the Beginning of the XIXth Century in the Controversy on Berthollet's Chemical Affinitie*

Evening Lecture

20:30 - 21:30 **Willem Hackmann**, Emeritus Curator, Museum for the History of Science, Oxford  
*The Magic Lantern: For Scientific Enlightenment and Entertainment*

Reception

**Sunday, 5 April**

09:00 - 09:35 **Pete Langman**, University of Sussex, Great Britain  
*The Audience is Listening: Differing Literary Representations of Newtonianism*

09:35 - 10:10 **Rob Iliffe**, University of Sussex, Great Britain  
*Multi-media Presentations of Enlightenment Material Culture*

Coffee

10:40 - 11:15 **Steven Turner**, Smithsonian Institution NMAH, Washington DC, USA  
*Similar but Separate: The Complex Relationship between Physics and Physics Teaching in the 19th Century*

11:15 - 11:50 **Roland Wittje**, University of Regensburg, Germany  
*"Simplicity is the Sign of Truth": Demonstration Experiments in Physics Teaching before and after WWI*

Lunch

13:30 - 14:05 **Richard Kremer**, Dartmouth College, Hanover, NH, USA  
*Teaching Physics at American Universities and Colleges around 1900: Laboratories, Apparatus, and European Practices*

14:05 - 14:40 **Falk Riess**, Carl von Ossietzky University Oldenburg, Germany and **Kirsten Baumann**, Innerstädtisches Gymnasium Rostock, Germany  
*Socialist Experiments in Physics Teaching at School? The Role of Practical Work in School Science Education in the former GDR*

Coffee

15:10 - 15:45 **Christine Nawa**, University of Regensburg, Germany  
*What Makes a Lecture an Exemplar? Bunsen's 'Experimentalchemie'*

15:45 - 16:20 **Lise Kvittingen** and **Per Odd Eggen**, Norwegian University of Science and Technology, Trondheim, Norway  
*Icons from Electrochemistry and their Reconstruction in Teaching*

Coffee

16:50 - 17: 25 **Graeme Gooday**, University of Leeds, Great Britain  
*Commentary*

17-25 - 18:00 Discussion and closing remarks