

## First International Conference on Story in Science Teaching

July 3 – 7, 2006  
Deutsches Museum, Munich, Germany

*Theme: Stories Based on the  
History of Science for the Science Classroom:  
Background, Examples, and Research*

### Introduction

The *First International Conference on Story in Science Teaching* brings together the *Winnipeg Units of Historical Presentation Research Group* and its international collaborators with an assembly of researchers and teachers prepared to focus on stories relating to history of science and their effective use in the science classroom at all levels, elementary school to university.

### Conference Purpose and Organization

The conference is a gathering of 21 academics who are prepared to contribute and discuss ideas, and examples of and plans for constructing teaching units and cases that contain well-written, peer-validated stories. At the conference, participants will be privileged to preview Jürgen Teichmann's DVD "From Amber to the Electron" that was filmed using reconstructions of historical experiments from the Deutsches Museum and to see live renditions of some scenes from the DVD.

Conference accommodations have been booked with the *Kerschsteiner Kolleg* at the Deutsches museum where the conference sessions will also be held.

The *First International Conference on Story in Science Teaching* is planned as a companion conference with the *Sixth International Conference for the History of Science in Science Education* to be held the week after, in Oldenburg, Germany, at Carl-von-Ossietzky-Universität Oldenburg, July 10 – 14.

### Presentations

A maximum of 30 minutes will be allotted for each presentation, plus 10 minutes for questions and discussion. The committee recommends that presentations consist of an introduction, summary of the paper, and conclusion, only, so that there may be sufficient time for serious discourse at the end of each presentation.

### Conference Location

The *First International Conference on Story in Science Teaching* takes place inside the Deutsches Museum in Munich, Germany, which is one of the world's largest science and technology museums, drawing about 1.3 million visitors each year. The museum's immense collection is spread out over 19 km of corridors, six floors of exhibits, and 30 departments.

### Conference Website

Information about the Conference may be obtained at the Group's website [www.sci-ed.ca](http://www.sci-ed.ca).

## Organizing and Program Committee

- Dr. Stephen Klassen, Department of Physics,  
University of Winnipeg, Canada
- Dr. Jürgen Teichmann, Professor and Director,  
Education Department, Deutsches Museum,  
Munich, Germany
- Dr. Barbara McMillan, Faculty of Education,  
University of Manitoba, Canada

## Conference Schedule

### ❖ Monday, July 3, 2006

8:00 – 8:30 *Breakfast at the Museum restaurant*

**Session 1:** 9:00 – 9:15 Official Conference Opening  
9:15 – 10:00 Paper 1

10:00 – 10:30 *Coffee*

**Session 2:** 10:30 – 11:15 Paper 2  
11:15 – 12:00 Paper 3

12:00 – 13:30 *Lunch on your own*

**Session 3:** 13:30 – 14:15 Paper 4  
14:15 – 15:00 Paper 5  
15:00 – 15:45 Paper 6

*Evening: Free*

### ❖ Tuesday, July 4, 2006

8:00 – 8:30 *Breakfast at the Museum restaurant*

**Session 4:** 9:00 – 10:30 Guided Tour of Museum  
10:30 – 11:00 *Coffee*

**Session 5:** 11:00 – 11:30 Paper 7  
11:30 – 12:00 Paper 8

12:00 – 13:30 *Lunch on your own*

**Session 6:** 13:30 – 14:00 Paper 9  
14:00 – 14:30 Paper 10  
14:30 – 15:00 Paper 11

*Evening: Free*

### ❖ Wednesday, July 5, 2006, Free Time in Museum

### ❖ Thursday, July 6, 2006

8:00 – 8:30 *Breakfast at the Museum restaurant*

**Session 7:** 9:00 – 9:45 Paper 12  
9:45 – 10:30 Paper 13

10:30 – 11:00 *Coffee*

11:00 – 12:00 *Conference Business*

12:00 – 13:30 *Lunch on your own*

**Session 8:** 14:00 – 14:45 Paper 14  
14:45 – 15:30 Paper 15

15:00 – 15:30 *Coffee*

**Session 9:** 15:30 – 16:15 Paper 16  
16:15 – 17:00 Paper 17

*Evening: Conference Dinner (participants' own expense)*

❖ **Friday, July 9, 2006**

8:00 – 8:30 *Breakfast at the Museum restaurant*

**Session 10:** 9:00 – 9:45 Paper 18

9:45 – 10:30 Paper 19

10:30 – 11:00 *Coffee*

**Session 11:** 11:00 – 11:45 Paper 20

11:45 – 12:15 Closing Session

## Conference Program of Sessions

❖ **Session 1: Monday, 9:00**

Opening and Introductions

Jürgen Teichmann and Stephen Klassen

The telescope—from technical practice to scientific discoveries:

1609 Galilei, 1814 Fraunhofer, 2006 Very Large Telescope

Jürgen Teichmann, Deutsches Museum, Germany

❖ **Session 2: Monday, 10:30**

Paul Selényi (1884–1954): Experimental physicist and inventor

László Kovács, Berzsenyi Dániel College, Hungary

Science Stories Involving Right Angled Triangles: Kepler,

Copernicus, Galileo, Newton and Leibniz in the

Context of Whitehead's Rhythm of Education

Ian Winchester, University of Calgary, Canada

❖ **Session 3: Monday, 13:30**

Searching for the Path of Quickest Descent:

Investigations by Galileo

Jeff Babb, University of Winnipeg, Canada

Kinematic Ideas in the History of Calculus

James Currie, University of Winnipeg, Canada

Mathematics for the King: Euler's Involvement  
in Practical Problems at the Court of Frederick the Great

Michael Eckert, Deutsches Museum, Germany

❖ **Session 4: Tuesday, 9:00**

Museum Tour

❖ **Session 5: Tuesday, 11:00**

Using Video Vignettes to Teach the History of Science

Danys Lachance, Ecole St. Eustache School, Canada

Using the History of Rock and Roll to Teach Electromagnetism

Michael Lukie, University of Winnipeg, Canada

❖ **Session 6: Tuesday, 13:30**

Radiation Revealed: A Historical Case Study with Marie Curie

Heidi Letkeman, St. James Collegiate, Canada

Using Story to Teach the Doppler Effect as a

Unit of Historical Presentation

Kara Binder, Dakota Collegiate, Canada

John Snow and the London Cholera Outbreaks: Historical

Context for a Modern Understanding of Disease

Stephen Jones, St. Boniface Research Center, Canada

❖ **Session 7: Thursday, 9:00**

Exploring the Possibilities of Developing Romantic

Understanding through Storytelling

Yannis Hadzigeorgiou, Uni Aegean, Greece

Does a Science Story Have Heuristic

Power to Promote Learning?

Stephen Klassen, University of Winnipeg, Canada

❖ **Session 8: Thursday, 13:30**

Science Teaching as a Dialogue—its Theory and Practice

Fritz Kubli, Zurich, Switzerland

Implementation Strategies for Mediated Student Learning

Using Historical Stories to Teach Science

Don Metz, University of Winnipeg, Canada

❖ **Session 9: Thursday, 15:30**

Science Stories as the Connective Tissue in Interdisciplinary  
Curricula: Weather and the Canadian Fur Trade (1650-1850)

Barbara McMillan, University of Manitoba, Canada

Moving the History of Science into the Classroom

Ralph Mason, University of Manitoba, Canada

❖ **Session 10: Friday, 9:00**

The Role of Quicksilver in the History of Science

Art Stinner, University of Manitoba, Canada and

Stephen Klassen, University of Winnipeg, Canada

Stirling is not Stirling

Waldemar Feller, Kantonsschule Wohlen, Switzerland

❖ **Session 11: Thursday, 11:00**

Galileo and the "Pass-vins": an idealized experiment?

Pierre Lauginie, Paris, France

Closing

Jürgen Teichmann and Art Stinner