

Control in Historical and Systematic Perspectives

March 2nd – March 5th

<https://rigor.hpsc.indiana.edu/>

Last updated February 5th, 2022

Wednesday, March 2nd

All times in Eastern Time (UTC-04)

8:30–9:00 Welcome and Opening Announcements

9:00–9:40 Jennifer Rampling

Signs and Tokens: Alchemical Imagery and Experimental Evidence in Fifteenth-Century England

9:40–10:20 Catherine Jackson

Where's the Rigor in Nineteenth-Century Chemical Theory?

10:20–11:00 Break

11:00–11:40 Tawrin Baker

Making Anatomy Rigorous and Controlling Visual Experiences: Christoph Scheiner's Oculus, hoc est, fundamental opticum (1619)

11:40–12:20 Alan Christoph Hoffman

Are Fish Color Blind? Karl von Hess, Karl von Frisch, and the Proper Way to Study Color Vision in Animals

Thursday, March 3rd

All times in Eastern Time (UTC-04)

8:30–9:10 Cesare Pastorino

Francis Bacon's Controlled Experiments on Seed Steeping and Germination: Their Context, Circulation, and Methodological Significance

9:10–9:50 Caterina Schürch

One Myrtle Proves Nothing: Rigorously Comparative Experiments and the Attempt to Improve Vegetation (1746–1856)

9:50–10:30 Break

10:30–11:10 Theodore Arabatzis & Vasiliki Christopoulou

From the Determination of the Ohm to the Discovery of Argon: Lord Rayleigh's Strategies of Experimental Control

11:10–11:50 Dan Liu

Learning Light Controls: Theory, Application, and Correction and the Zeiss Vacation Courses for Scientific Microscopy, 1907-1924

11:50–1:00 Break

1:00–1:40 Evan Arnet

Controlling Away the Phenomenon: Maze Research and the Nature of Learning

Friday, March 4th

All times in Eastern Time (UTC-04)

9:00–9:10 Brief Introduction

9:10–9:50 Friedrich Steinle

Controlling Induction: Practices and Reflections in 19th Century Experimental Research

9:50–10:30 Klodian Coko

Inductive and Deductive Reasoning in Discovering the Cause of Brownian Movement

10:30–11:00 Break

11:00–11:40 Claudia Cristalli

A “Careful Examination of all Kinds of Phenomena”: Rigor in Psychical Research at the End of the Nineteenth Century

11:40–12:20 Julia Kursell

Experimentation with Control Groups in Carl Stumpf’s Study of Auditory Judgment

Saturday, March 5th

All times in Eastern Time (UTC-04)

8:30–9:10 Hjalmar Fors

The New Chemical Understanding of Medicinal Plants in the late Eighteenth Century and the Problem of Physiological Effect

9:10–9:50 Christopher Halm

Striving for Experimental Control in the Agrarian «Field-Lab».: The History of Agricultural Chemistry Around 1800

9:50–10:20 Break

10:20–11:00 Kärin Nickelsen

Explaining Forms and Functions: Methodological Predicaments in Late Nineteenth-Century Botany

11:00–12:00 Concluding Remarks