

Boston Colloquium for Philosophy of Science

www.bu.edu/cphs

40th Anniversary of the First Osgood Hill Conference on Quantum Gravity*

Monday, October 15, 2012
Barristers Hall,
Boston University School of Law
765 Commonwealth Avenue

9 am–Noon

Introduction: Forty Years After

John Stachel Center for Einstein Studies, Boston University

The Meaning of Background Independence

Tian Yu Cao Philosophy, Boston University

Emergence: Some Key Physical Issues

Bei-Lok Hu Physics, University of Maryland

The Problem of Space in Quantum Gravity

Christian Wüthrich Philosophy, Science Studies,
UC San Diego

Simplicial Gravity and Strings

John Swain Physics, Northeastern University

2–5 pm

Some Features of a Good Quantum Gravity Theory

George Ellis Mathematics, University of Cape Town

Quantum Gravity Phenomenology

Giovanni Amelino-Camelia Physics, University of
Rome La Sapienza

Meaning and Measurement in Quantum Gravity

John Stachel Center for Einstein Studies, Boston University

Unimodular Conformal and Projective Relativity

Kača Bradonjić Physics, Wellesley College

* Co-sponsored by the Center for Einstein Studies, this event commemorates the Osgood Hill Conferences on quantum gravity. For more information, please see www.bu.edu/cphs.

Turing 100†

Sunday, November 11, and
Monday, November 12, 2012
Photonics Center, 9th Floor Colloquium Room
8 St. Mary's Street, Room 906

Sunday, 10 am–Noon

I. Turing's Philosophical and Logical Foundations

On Formalism Freeness: A Meditation on Gödel's 1946 Princeton Bicentennial Lecture

Juliette Kennedy Mathematics and Statistics, University of
Helsinki

Turing, Church, Gödel: A Personal Perspective

Michael Rabin Computer Science, Harvard University

Turing and Wittgenstein

Juliet Floyd Philosophy, Boston University

Sunday, 1:45–3:45 pm

II. Turing and Mathematics: Computability and Definability

Universality Is Ubiquitous

Martin Davis Courant Institute, NYU; Mathematics, UC
Berkeley

Collapsing Sentences

Gerald Sacks Mathematics, Harvard University and MIT

The Hierarchy of Definability: An Extended Thesis

Theodore Slaman Mathematics, UC Berkeley

Sunday, 4–6 pm

III. Turing and Cryptography

Rational Proofs

Silvio Micali Computer Science, MIT

Turing and the Growth of Cryptography

Ronald Rivest Computer Science, MIT

Alan Turing and Voice Encryption

Craig Bauer Mathematics, York College of Pennsylvania

Monday, 9:30 am–12:15 pm

IV. Turing and AI

Title TBA

Marvin Minsky Media Arts and Sciences, MIT

Why Neanderthals Couldn't Pass Turing's Test and When Computers Will

Patrick Henry Winston Computer Science, MIT

What's Wrong with the Moral Turing Test?

Matthias Scheutz Computer Science, Tufts University

Embodying Computation at Higher Types

S. Barry Cooper Mathematics, University of Leeds

Monday, 2–4 pm

V. The Church-Turing Thesis

Normal Forms for Puzzles:

An Enigmatic Variant of Turing's Thesis

Wilfrid Sieg Philosophy, Carnegie Mellon University

Logical Egg or Computational Chicken?

Jaakko Hintikka Philosophy, Boston University

Is There a Church-Turing Thesis for Social Algorithms?

Rohit Parikh Computer Science, Mathematics, Philosophy,
CUNY

Monday, 4:15–6:30 pm

VI. Turing, Physics, and Probability

Algorithmic Randomness and Turing's Work on Normality

Rod Downey Mathematics, Victoria University
of Wellington

Spacetime Physics and Non-Turing Computers

Mark Hogarth Philosophy, Cambridge University

Title TBA

Leonid Levin Computer Science, Boston University

† Co-sponsored by the Rafik B. Hariri Institute for Computing and Computational Science & Engineering and the Department of Computer Science.

How Can the History and Philosophy of Science Contribute to Contemporary U.S. Science Teaching?‡

Friday, December 7, 2012
Photonics Center, 9th Floor Colloquium Room
8 St. Mary's Street, Room 906

9–10:10 am

Panel I: History of HPS in Science Education

10:15–11:25 am

Panel II: HPS, Cognition, and Science Learning

11:30 am–12:40 pm

Panel III: HPS and the Science Frameworks

2:15–3:25 pm

Panel IV: HPS in the Classroom: Objectives, Materials, and Methods

3:30–4:40 pm

Panel V: HPS in the Classroom: Outcomes with Students

4:45–5:55 pm

Panel VI: HPS in Professional Development

‡ Co-sponsored by the Boston University School of Education. We gratefully acknowledge the support of a REESE grant from the National Science Foundation.

The Alfred I. Tauber Forum[§]

Stereotype Threat: Philosophy, Psychology, and the Self**

Friday, February 8, 2013
Terrace Lounge
2nd Floor, George Sherman Union
775 Commonwealth Ave.

1–6 pm

Why Are There so Few Women in Philosophy?

Louise Antony Philosophy, University of Massachusetts,
Amherst

Title TBA

Greg Walton Psychology, Stanford University

Stereotype Threat and Intentional Performance

Ron Mallon Philosophy, Washington University, St. Louis

Title TBA

Steven Spencer Psychology, University of Waterloo

Using Knowledge: Philosophical and Psychological Perspectives on Stereotype Threat

Tamar Gendler Philosophy, Yale University

§ The annual Alfred I. Tauber Forum on Integrating Scientific Knowledge with Human Needs is named in honor of the Center's second director. For further details, see www.bu.edu/cphs/directors.

**Supported by the Boston University Center for the Humanities.

The Robert S. Cohen Forum^{††}

The Science of Music: 150 Years Since Helmholtz's On the Sensations of Tone**

Friday, March 22, 2013
Terrace Lounge
2nd Floor, George Sherman Union
775 Commonwealth Ave.

1–5 pm

The Reception of Helmholtz's *On the Sensations of Tone: Celebrity vs. Enlightenment*

David Cahan History, University of Nebraska, Lincoln

Sympathetic Resonance: The Influence of Helmholtz's Theory of Acoustics

Lydia Patton Philosophy, Virginia Tech

Pitched Battles: Helmholtz, Rayleigh, and Beyond

Eric J. Heller Chemistry, Physics, Harvard University

Musical Illusions, Perfect Pitch, and Other Mysteries

Diana Deutsch Psychology, UC San Diego

†† The annual Robert S. Cohen Forum on Contemporary Issues in Science Studies is named in honor of the Center's cofounder and first director. For further details, see www.bu.edu/cphs/directors.

**Supported by the Boston University Center for the Humanities.

*The Karbank Symposium
in Environmental Philosophy*^{‡‡}

A Symposium on John Broome's Climate Matters: Ethics in a Warming World

Thursday, April 11, 2013
The Castle, 225 Bay State Road

2–6 pm

John Broome Philosophy, University of Oxford
with Commentators

‡‡ The Karbank Symposium in Environmental Philosophy is named in honor of Steven Karbank, an alumnus and generous benefactor of the Philosophy Department and this symposium.

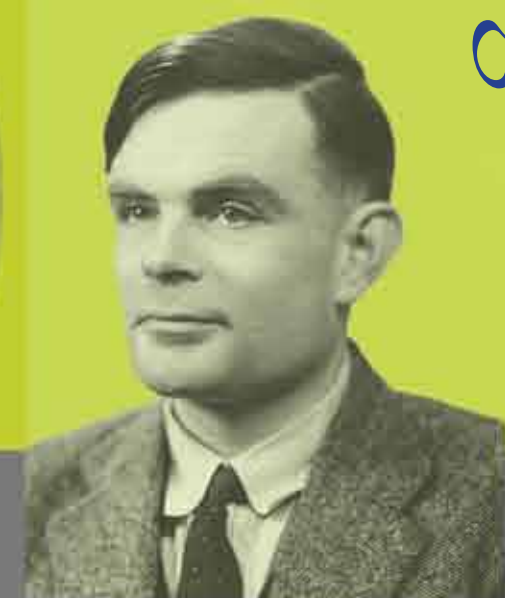
For further information and updates,
visit our website: www.bu.edu/cphs

The Boston University
Center for Philosophy
& History of Science was
founded in 1960 as an
interdepartmental, inter-
university forum on the
nature of science. For over
50 years the Colloquium
has fostered the center's
goal of building interdis-
ciplinary bridges between
the humanities and sciences
by bringing together the
world's leading scholars
in the philosophy, history,
and social studies of science
in an annual lecture series.

All lectures are free and open to
the public. Selected proceedings
of the colloquia are published by
Springer in the series *Boston Studies
in the Philosophy of Science*.

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