



**COMMITTEE FOR  
INTEGRATED HISTORY AND  
PHILOSOPHY OF SCIENCE**

16-18 MARCH 2023  
UNIVERSITY OF SOUTH CAROLINA

# **& H P S 9 CONFERENCE**



Keynote speaker

Alisa Bokulich



Keynote speaker

Gregory Radick

[www.integratedhps.com](http://www.integratedhps.com)



Welcome to the 9th International  
Conference of Integrated History and  
Philosophy of Science.

Local Organizing  
Committee



UNIVERSITY OF  
**South Carolina**



Michael  
Stoeltzner



Agnes  
Bolinska



We gratefully acknowledge the generous support of the Ann Johnson Institute for Science, Technology, and Society, and of the Department of Philosophy at the University of South Carolina.

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# 9TH INTERNATIONAL CONFERENCE OF INTEGRATED HPS

<b>Thursday, March 16, 2023</b>		
Arrival	Registration and Coffee	8:30 - 9:30 AM
Welcome and Announce- ments	<p>Lydia Patton, Executive Board, The Committee for Integrated HPS</p> <p>Leah McClimans, The Ann Johnson Institute for Science, Technology and Society</p> <p>Dean Joel Samuels, The College of Arts and Sciences, The University of South Carolina</p> <p>Agnes Bolinska, Conference Organizer, 9th Conference for Integrated HPS</p>	9:30 - 9:55 AM
Ann Johnson Institute Panel on Community in HPS	<p><b>Panel Chairs</b> Leah McClimans and Allison Marsh, The Ann Johnson Institute for Science, Technology and Society</p> <p><b>Panel Speakers</b> Hasok Chang, Matthew Kisner, Jutta Schickore, and Heidi Voskuhl</p>	10:00 - 11:30 AM
	Lunch break.	11:30 - 1 PM
<b>Session 1</b>	Convvene. Chair: Lydia Patton	<b>1 PM</b>
Aline Potiron	How Does the History of Microbiology Call for a More Integrative View of Explanation in Human Gut Microbiome Research?	1:10 - 1:40 PM
Kelle Dhein	How the Instinct vs. Learning Dichotomy Continues to Motivate Productive Debates about Animal Cognition	1:45 - 2:15 PM

# 9TH INTERNATIONAL CONFERENCE OF INTEGRATED HPS



	<b>Thursday, March 16 (continued)</b>	
Break	Coffee	2:15- 2:40 PM
<b>Session 2</b>	Convener. Chair: Jim Stewart	<b>2:45 PM</b>
Matilde Carrera	A Name is for Ever. Implication of Past Taxonomical Attribution in Paleoanthropology	2:50 - 3:20 PM
Dániel Bárdos	Tacit Knowledge and Paleoaesthetics: Visual Rhetorics in the Early History of Punctuated Equilibria	3:25 - 3:55 PM
Julia Sanchez-Dorado	'A Few Barrels of Sand' Shipped from the River to the Model: An HPS Approach to the Materiality of Modelling	4:00 - 4:30 PM
Break	Refreshments	4:30 - 4:55 PM
Keynote Speaker	<b>Alisa Bokulich (Boston University)</b> How High the Mountain, How Low the Sea? Processualism in the Geosciences	5 - 6:30 PM



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<b>Friday, March 17, 2023</b>		
	Coffee	9 - 9:15 AM
<b>Session 3</b>	Convener. Chair: Lydia Patton	<b>9:15 AM</b>
Andrew Buskell	Recovering Ontological Choices and Recognizing Ontic Risk	9:20 - 9:50 AM
Henriikka Hannula	The Tedious Clatter of 'Induction' and 'Deduction' - Wilhelm Dilthey on Historical, Social, and Psychological Laws	9:55 - 10:25 AM
Samara Greenwood	Integrated HPS and The Problem of Context	10:30 - 11 AM
Break	Coffee	11 - 11:30
<b>Session 4</b>	Convener. Chair: Jutta Schickore	<b>11:30 AM</b>
Kayoung Kim	Realism and the Atomic Theory: Reflecting on the Debate Between Williamson and Brodie, 1866-1880	11:35 AM - 12:05 PM
Hasok Chang	Discovery Through Aim-Oriented Adjustment: The Case of the Daniell Cell	12:10 - 12:40 PM
	Lunch break.	12:45 - 2:10 PM

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	<b>Friday, March 17, 2023</b>	
<b>Session 5</b>	Convener. Chair: Michael Stoeltzner	<b>2:10 PM</b>
Marco Forgiione	Feynman: Visualization and Understanding of Quantum Phenomena	2:15 - 2:45 PM
Noah Stemeroff	Hermann Weyl and the Problem of Knowledge	2:50 - 3:20 PM
Break	Coffee	3:20 - 3:50 PM
<b>Session 6</b>	Convener. Chair: Hasok Chang	<b>3:50 PM</b>
Joshua Eisenthal	Back to the Problem of Space	3:55 - 4:25 PM
Mahmoud Jalloh	Metaphysics and Convention in Dimensional Analysis, 1914-1917	4:30 - 5 PM



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	<b>Friday, March 17, 2023</b>	
<b>Poster Session</b>	Convener. Chair: Agnes Bolinska	<b>5 PM</b>
	<b>Poster Presentations</b>	<b>5:15 PM</b>
Alan Love & Max Dresow	Teleonomy: Revisiting a Proposed Conceptual Replacement for Teleology	
Katherine Valde	Lessons from the Calibration and Synchronization of Biological Clocks	
Chris Zajner	Ignorance Is Bliss? The Impact of Globalization and Medical Theory on the Societal Response to the 1889 Russian Flu	
George Borg	Geochronology and the Ontology of Scientific Methods	
	Discussion (All Posters)	Ending at 6:30 PM
	Conference Dinner Top of Carolina	7:30 PM

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	<b>Saturday, March 18, 2023</b>	
	Coffee	9 - 9:15 AM
<b>Session 7</b>	Convene. Chair: Uljana Feest	9:15 AM
Corey Maley	Computation and Computability	9:20 - 9:50
Ioan Muntean	A Functional and Interventionist Approach to Scientific Progress: Computational Science at Work	9:55 - 10:25
Hakob Barseghyan and Aayu Pandey	The Mechanics of Kuhn-Loss	10:30-11 AM
	Coffee	11-11:25 AM
Keynote Speaker	<b>Gregory Radick (University of Leeds)</b> A Defense of Minimal-Rewrite Counterfactuals in the History of Sciences	11:30 AM - 1 PM



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	<b>Saturday, March 18, 2023</b>	
	Catered lunch. Lunch meeting, The Committee for &HPS.	1 - 2:25 PM
<b>Session 8</b>	Convene. Chair: Alan Love	2:25 PM
Michael Veldman	What Kinds of Causes are Forces? Euler's Line of Separation between Metaphysics and Mechanics	2:30 - 3
Qiu Lin	Du Châtelet on Mechanical Explanation vs. Physical Explanation	3:05 - 3:35
Caleb Hazelwood	Newton's "Law-First" Epistemology and "Matter-First" Metaphysics	3:40 - 4:10
	Close of the Conference	4:15 PM



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# & HPS 9

## 9TH CONFERENCE OF INTEGRATED HISTORY & PHILOSOPHY OF SCIENCE



**Dوريا Antiquior—A more Ancient Dorset (1830) by geologist Henry de la Beche based on fossils found by Mary Anning.**