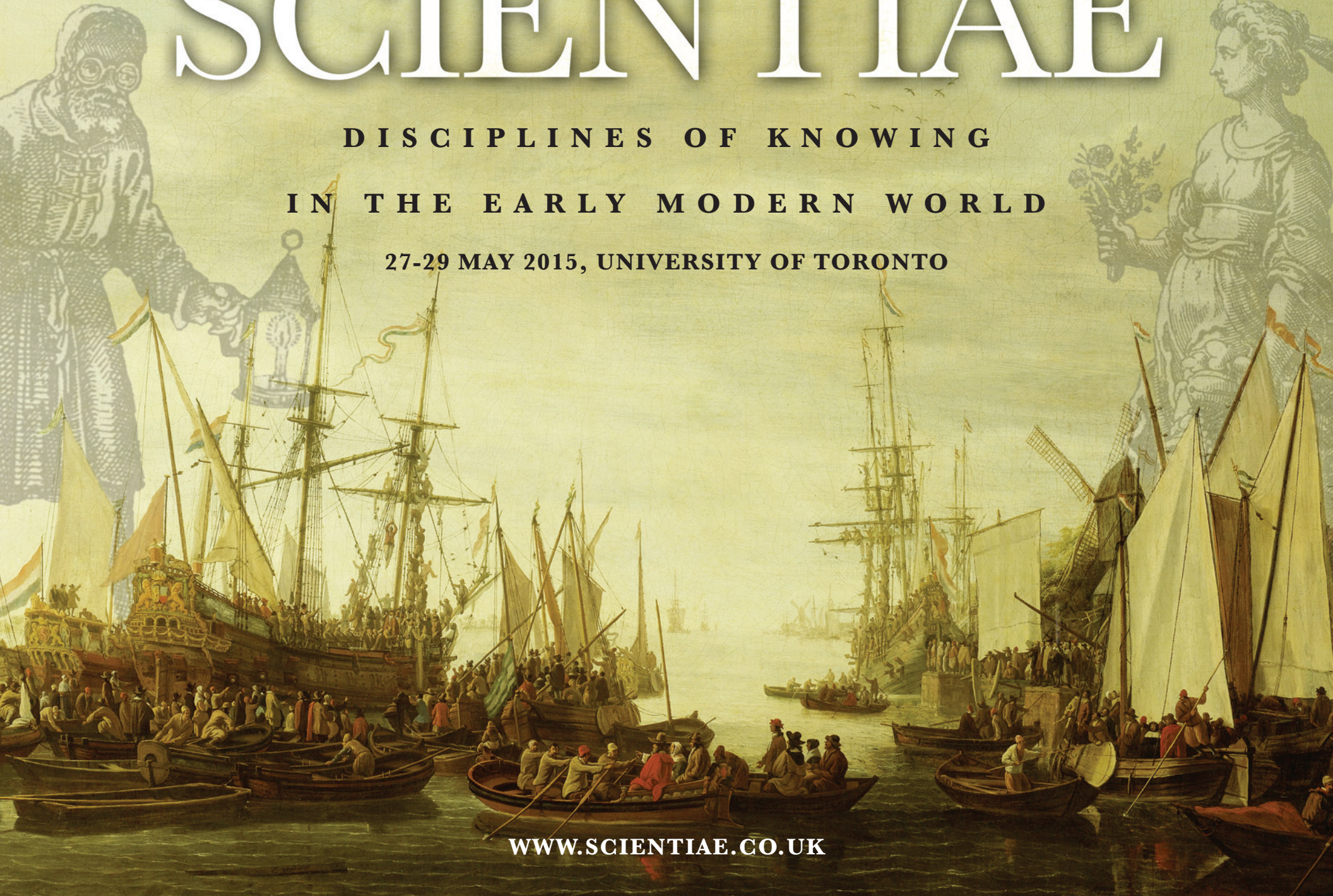


# SCIENTIAE

DISCIPLINES OF KNOWING

IN THE EARLY MODERN WORLD

27-29 MAY 2015, UNIVERSITY OF TORONTO



[WWW.SCIENTIAE.CO.UK](http://WWW.SCIENTIAE.CO.UK)

Scientiae 2015 is the fourth annual international conference on the emergent knowledge practices of the early-modern period (1450-1750). The major premise of this conference is that knowledge during the period of the Scientific Revolution was inherently interdisciplinary, involving complex mixtures of practices and objects which had yet to be separated into their modern “scientific” hierarchies. Our approach, therefore, needs to be equally wide-ranging, involving Biblical exegesis, art theory, logic, and literary humanism; as well as natural philosophy, alchemy, occult practices, and trade knowledge. Attention is also given to mapping intellectual geographies through the tools of the digital humanities. Always, our focus must be on the subject-matter at hand, rather than on the disciplinary performances by which we access it. Although centred around the emergence of modern natural science, Scientiae is intended for scholars working in any area of early-modern intellectual culture.

Scientiae 2015 has been made possible thanks to the generous support of [Victoria University](#), the [Centre for Reformation and Renaissance Studies](#), the [Department of History](#), the [Department for the Study of Religion](#), the [Emilio Goggio Chair in Italian Studies](#), the [Institute for the History and Philosophy of Science and Technology](#), and [Brill](#), whose sponsorship we gratefully acknowledge.



UNIVERSITY OF  
TORONTO

Scientiae 2015 would like to thank James DiCenso (Department for the Study of Religion, University of Toronto) for his assistance with conference logistics and John Christopoulos (CRRS Fellow and IPHST graduate) for curating the display of early modern books from the collection of the [Centre for Reformation and Renaissance Studies](#).

**Conference Committee:** James A.T. Lancaster (Warburg Institute), Richard Raiswell (University of Prince Edward Island), Erin Webster (Birkbeck, University of London), and Paul Greenham (University of Toronto).

**Scientiae Executive Committee:** David Beck (University of Warwick), Vittoria Feola (Gerda Henkel Foundation, Oxford), James Dougal Fleming (Simon Fraser University), James A.T. Lancaster (Warburg Institute), Steven Matthews (University of Minnesota, Duluth), and Richard Raiswell (University of Prince Edward Island).

# DAY ONE: WEDNESDAY, MAY 27

8:00 – 8:45

EM 119

## REGISTRATION

8:45 – 9:00

EM 001

## WELCOMING ADDRESS

**James A. T. Lancaster** (Warburg Institute), Principal Organizer

9:00 – 10:30

EM 001

## KEYNOTE

Chair: James A.T. Lancaster (Warburg Institute)

**Peter Dear** (Cornell University): *Multiplex erit scientia: Reason as a universal solvent in early-modern knowledge*

10:30 – 11:00

EM 119

## COFFEE BREAK

11:00 – 12:30

### 1. Making Sense of Space in 16th and 17th Century History

EM 001

Chair: Janine Rogers

**Richard Raiswell** (University of Prince Edward Island)  
*How cold can it be? English Geographical Speculation and the Search for the Northern Route to the East*

**Raphael Falco** (University of Maryland, Balt. County)  
*Chorography, Myth, and Memory in Michael Drayton's Poly-Olbion and Elegies Upon Sundry Occasions*

**Peter Hess** (University of Texas at Austin)  
*The case against spatial knowledge in sixteenth-century Germany*

### 2. Empiricism in the Religious Discourses of Early Modern England

EM 108

Chair: James A.T. Lancaster

**James Pedlar** (Tyndale University College)  
*The 'Spiritual Senses' and John Wesley's Response to Empiricism*

**Natasha Duquette** (Tyndale University College)  
*Empiricism, Emotion, and Eschatology in the Poetry of Katherine Philips and Anne Finch*

**Kristen Irwin** (Loyola University)  
*Locke's Empiricist Epistemology of Religion in the Essay Concerning Human Understanding*

### 3. Alchemy

NF 113

Chair: Vittoria Feola

**Paul Greenham** (University of Toronto)  
*Reading Alchemy with Isaac Newton*

**Ken Henson** (Art Academy of Cincinnati)  
*Tracing the Macrocosm: The Influence of Renaissance Alchemical Philosophy on Eclectic Medicine*

### 4. Science, techné (ars), and technology in the Early Modern Period (I)

NF 119

Chair: Maria Helena Roxo Beltran

**Maria Helena Roxo Beltran**  
(Pontifical Catholic University of São Paulo)  
*Text/image relationships in early printed books: some remarks on alchemical/chemical images*

**Vera Cecília Machline**  
(Pontifical Catholic University of São Paulo)  
*Images blending the traditional four temperaments with Galen's humoral views*

12:30 – 1:30

LUNCH

1:30 – 3:00

**5. Foreign Knowledge**

EM 001

**Chair:** Kathryn Walls

**Kristin Shimmin** (Carnegie Mellon University)

*Structuring Politics with Natural Histories: creolizing scientific expertise in Edward Long's The History of Jamaica (1774)*

**Patrick J. Connolly** (Iowa State University)

*Locke, Pyrrard, and Coconuts: Travel Literature as Natural History*

**Stefano Gulizia** (CUNY)

*Speaking Clocks for the Sultan: Understanding Automata in the Early Modern Mediterranean*

**6. Books and their Readers**

EM 108

**Chair:** Hélène Cazes

**Vittoria Feola**

(Gerda Henkel Fellow, Oxford)  
*Eugene of Savoy's library and network. An anti-radical Enlightenment case study?*

**Cornelis J. Schilt** (University of Sussex)

*Known by the books he keeps: Scenes from the library of Isaac Newton*

**Dina Bacalexi & Mehrnaz Katouzian-Safadi**

(CNRS)  
*Two readings of Galen: Rhazes (9th-10th century) and Leonhart Fuchs (16th century)*

**7. Exegesis, Scripture Conditioning Knowledge**

NF 113

**Chair:** Richard Raiswell

**Atsuko Fukuoka** (University of Tokyo)

*The Artifices of Proving Sovereignty using the Old Testament: The Case of Hobbes and his Dutch Contemporaries*

**Ran Segev** (University of Texas at Austin)

*The Search for Mount Carmel in the New World: Fray Antonio Vázquez de Espinosa and Geography at the Service of Faith*

**James A.T. Lancaster** (Warburg Institute)

*Francis Bacon and the Tradition of Experimental Religion*

**8. Science, techné (ars), and technology (II)**

NF 119

**Chair:** Vera C. Machline

**Alison K. Lingo** (UC, Berkeley)

*The Revival of the Case History in Early Modern Paris: Louise Bourgeois, Ambroise Paré and Jacques Guillemeau*

**Lais dos Santos Pinto Trindade**

(Pontifical Catholic University of São Paulo)  
*Chemical arts and techniques in seventeenth-century France: medicinal and cosmetic recipes*

3:00 – 3:30

EM 119

COFFEE BREAK

3:30 – 5:00

**9. The Problem of Certainty**

EM 001

**Chair:** Charlie Huenemann

**Marcin Konik** (Jagiellonian University, Poland)

*Devil and devilish tricks - different views on the problem in Early Modern Poland*

**Mark K. Boespflug** (University of Colorado-Boulder)

*Locke's Novel Doxastic Practice: The Proportionality Thesis*

**Leah Knight** (Brock University)

*She Knew She Was Right: How Anne Clifford Read Her History*

**10. Graphs and Diagrams**

EM 108

**Chair:** Elaine C. Stroud

**Peter Distelzweig** (University of St. Thomas)

*Illustrating Utilitates: Girolamo Fabrici's other images*

**Stewart Weaver** (University of Rochester)

*Halley's Chart: Science, Exploration, and the Graphic Representation of Knowledge in the English Enlightenment*

**Margaret E. Schotte** (York University)

*Our Place on the Globe: The Evolution of Cosmographical Diagrams in Sailors' Manuals, 1550-1700*

**11. Representing/Translating Knowledge**

NF 113

**Chair:** David Beck

**Mike A. Zuber** (University of Amsterdam)

*Philosophical Delights: Knowledge-Based Entertainment Performances in Polite Society, 1636–66*

**Matthijs Jonker** (University of Amsterdam)

*Artistic Images as Instruments in Early Modern Scientific Practices*

**J.D. Fleming** (Simon Fraser University)

*How to mean things with marks: The informational character of John Wilkins*

5:00 – 6:30

**12. Morality and Scientiae**

NF 113

**Chair:** Steven Matthews

**Elliot Rossiter**

(University of Western Ontario)

*The Moral Dimensions of Robert Boyle's  
Physico-Theology*

**Chris Meyns**

(UCL/University of Toronto)

*Leibniz and the Ethics of Probability*

**Livia Guimarães**

(Universidade Federal de Minas Gerais)

*Chesterfield's Letters to his Son – natural and political breeding and sociability – a tincture of skepticism*

**13. Faith and the New Science**

EM 108

**Chair:** James A.T. Lancaster

**Anna Frammartino Wilks** (Acadia University)

*Blumenbach and Kant on Biological Force*

**Nigel Fernando**

(University of Toronto)

*Of Nature and Grace: Exploring the Port Royal Writings*

**Karine Durin** (University of Nantes)

*Natural reason in natural philosophy in Early Modern Spain*

**14. Globalizing Scientiae**

EM 001

**ROUNDTABLE**

**J.B. Shank** (University of Minnesota)

**Roger Hart** (Texas Southern University)

**Carla Nappi** (University of British Columbia)

**Robert G. Morrison** (Bowdoin College)

6:30 – 8:00

Ned's Cafe

**WINE RECEPTION**

**DAY TWO: THURSDAY, MAY 28**

9:00 – 10:30

**15. Theology and the New Science**

EM 001

**Chair:** Steven Matthews

**Jennifer Egloff**

(New York University)

*Calculating the Apocalypse: Early Modern Mathematicians' Interdisciplinary Approaches to Interpreting Revelation*

**Karen Hollewand**

(University of Oxford)

*The banishment of Beverland: the radical ideas of a humanist scholar on sex, sin and the Bible in the late 17th century Dutch Republic*

**Harman Bhogal**

(Birkbeck, University of London)

*Understanding Demons: Demonology in Post-Reformation England*

**16. Visualising Knowledge**

EM 108

**Chair:** David Beck

**Ashley D. West** (Temple University)

*Representing German Sacred Treasuries and the Making of the Image of Objectivity before the Era of Science*

**Elaine C. Stroud** (University of Wisconsin-Madison)

*The Borders of Art and Science: The role of illustration in developing and promoting scientific ideas at the center of a controversy between Thomas Hobbes and René Descartes*

**Filip Malešević** (University of Fribourg)

*The visibility of the "Romana Ecclesia" in posttridentine Rome: Cesare Baronio and the disclosure of the invisible*

**17. Experience, Experiment, Expound, Explode: Coterie Writing and the Scientific Revolution**

NF 113

**Chair:** Adam Katz

**Adam Katz**

(Stony Brook University)

*Paradise Tossed: How the Reformation Shaped the Reception of Thomas More's Utopia and the entire course of scientific inquiry*

**Anthony Oliveira**

(University of Toronto)

*Revolutions of Dust:*

*John Donne and the Manhattan Project*

10:30 – 11:00

EM 119

COFFEE BREAK

11:00 – 12:30

**18. Learned and Vernacular Traditions in Early Modern Venice**

EM 001

**Chair:** Mark Jurdjevic

**Tawrin Baker** (Indiana University, Bloomington)

*A Dead Eye Is Not Really an Eye:*

*Determining Structure and Action in Sixteenth Ocular Anatomy*

**Cynthia Klestinec** (Miami University-Ohio)

*Medicine and the Scientific Revolution:*

*Circulating Value in the Medical Marketplace in Early Modern Venice*

**Meredith K. Ray** (University of Delaware)

*Erina's Island: Scientific Culture and Women's Writing in Seicento Venice*

**19. Depicting and the Imagination**

EM 108

**Chair:** Hélène Cazes

**Judy Jansen**

(University of British Columbia)

*Bodies of Knowledge: Anatomical Frontispieces  
in the Early Modern Era*

**Caroline O. Fowler**

(Center for Advanced Study in the Visual Arts)

*A Universal Immateriality:*

*Bernard Picart and the Matter of Art and Religion*

**Kathryn Morris**

(University of King's College)

*Margaret Cavendish: Natural Philosophy and the Imagination*

**20. Literature and the Epistemic Shift in 17th-Century Literature**

NF 113

**Chair:** Mary Nyquist

**Erin Webster**

(Birkbeck, University of London)

*"To See and Tell of Things Invisible" in a Post-Galilean Age*

**Sam Kaufman**

(University of Toronto)

*Lunacy after Galileo: Melancholy, Hysteria, and  
Religious Transformation in The Duchess of Malfi*

**Mingjun Lu** (University of Toronto)

*"Wisdom-giving Plant" as "Mother of Science":  
Miltonic Causation and the Mechanical Science*

12:30 – 1:30

LUNCH

1:30 – 3:30

**21. Mapping Networks of Astronomical Knowledge**

EM 001

**Chair:** Kathleen Crowther

**Peter Barker**

(University of Oklahoma)

*The Rise of the New Theorica*

**Johanna Biank**

(Max Planck Institute for the History of Science, Berlin)

*Pseudo-Proclus's Sphaera:*

*A Neoplatonic alternative to Sacrobosco's treatise?*

**Kathleen Crowther**

(University of Oklahoma)

*Sacrobosco's Sphere in Portugal and Spain*

**Matteo Valleriani**

(Max Planck Institute for the History of Science, Berlin)

*Network and Identity The Shared Scientific Knowledge  
of the Tracts De sphaera*

**22. Faculties and Their Impairment**

EM 108

**Chair:** James A.T. Lancaster

**Julia Reed**

(Harvard University)

*Blindness and Haptic Perception before Molyneux's Problem*

**David Clemis**

(Mount Royal University)

*Legal Doctrine, Medical Knowledge and the*

*Moral Agency of the Early Modern English Drunkard*

**Adam Rzepka**

(Montclair State University)

*"We loose it like Lightning": Early Modern Apprehension*

**Alexandra Chadwick**

(Queen Mary, London)

*The language of mind and soul in Hobbes's account  
of man's natural faculties*

**23. Dissemination**

NF 113

**Chair:** Cornelis J. Schilt

**Lauren R. Cannady**

(Karl-Franzens-Universität, Graz)

*Locating the art in the Parisian Société des arts  
collective of the 1720s and 1730s*

**Will Brown**

(Johns Hopkins University)

*Publishing Empire: Esprit de Cabart de Villermont's Archive  
and the French Periodical Press, 1652-1707*

**Sundar Henny**

(University of Basel)

*Turning Geography into Anthropology.  
The Reception of Strabo during the Enlightenment*

**Simona Boscani Leoni**

(University of Berne)

*Aristotelianism, Empiricism, Eclecticism:  
Knowledge practices in the Old Swiss Confederation*

3:30 – 4:00  
EM 119  
**COFFEE BREAK**

4:00 – 5:30

**24. Science and Politics**

EM 001

**Chair:** Charlie Huenemann

**Kathryn Walls**

(Victoria University of Wellington, NZ)

*The Newtonian system as a model of government:  
Desaguliers and Alexander Pope*

**Ansgar Lyssy**

(LMU Munich)

*Reason and its Practical Limits:  
Leibniz on Political Rationality*

**Marcus P. Adams**

(University at Albany, SUNY)

*Thomas Hobbes on the Laws of Nature*

**25. Observation and Action**

EM 108

**Chair:** Steven Matthews

**Lindsay Alberts** (Boston University)

*Transformation:*

*The Studiolo of Francesco I as Educational Space*

**Hélène Cazes**

(University of Victoria)

*The Anatomist and the Butchers:  
The Fabric of Andreas Vesalius' scientia*

**Reem Elghonimi**

(The University of Texas at Austin)

*Seeing Small: Mathematical Optics and the  
Dissection of Nature in Interregnum and  
Republican England, 1640-1657*

**26. Rhetoric & Presentation**

NF 113

**Chair:** James Dougal Fleming

**Brian Nance**

(Coastal Carolina University)

*Beyond the Humility Trope: Humanisms in the  
Observationes of Petrus Forestus*

**Noa Yaari**

(York University)

*Does Air weigh in Air? First Experiments in Late Sixteenth  
Century Pisa and the Use of Descriptive Language*

**Janine Rogers & Samuel Gessner**

(Mount Allison University & University of Lisbon)

*The Textual Heritage of the De Fabrica et Usu Treatises:  
Chaucer's "Treatise of the Astrolabe" at the threshold of the  
early modern tradition of scientific instrument texts.*

**27. Regimens of Health in Early Modern Europe**

NF 119

**Chair:** Lucia Dacome

**Sandra Cavallo** (Royal Holloway)

*Authorship, form and audiences of Italian regimens of  
health (late 15th-late 17th centuries)*

**David Gentilcore** (University of Leicester)

*Regimens, medical authority and foodways  
in early modern Europe*

**Tessa Storey**

(Royal Holloway)

*English and Italian Regimens: the Protestant and the  
Catholic Body in the sixteenth and seventeenth centuries*

7:00 – 9:00

Burwash Hall

**CONFERENCE BANQUET**



## DAY THREE: FRIDAY, MAY 29

9:00 – 10:30

### 28. Toward a World/Global/Planetary Theory of the Visuality of Early Modern Technologies

EM 001

#### ROUNDTABLE

**S. E. Kile**

(University of Michigan, Ann Arbor)

**Jennifer Nelson**

(University of Michigan, Ann Arbor)

**David Porter**

(University of Michigan, Ann Arbor)

### 29. Natural Knowledge

EM 108

**Chair:** Vittoria Feola

**Stephanie Shirilan** (Syracuse University)  
*European Occultism and the Consumption of  
Indigenous Knowledge*

**Jennifer Mori**

(University of Toronto)

*Prognostic birds and vulgar errors.  
English popular naturalism c. 1640-1750*

**Kate Wersan**

(University of Wisconsin, Madison)

*A More Perfect Time: Representing Space and Time  
in long Eighteenth Century Horticultural Guides*

### 30. Authorship in the Sixteenth and Seventeenth Centuries

NF 113

**Chair:** Sven Dupré

**Michelle DiMeo**

(Chemical Heritage Foundation)

*Authorship and Authority in  
Robert Boyle's Medical Recipes*

**Kaspar von Greyerz**

(University of Basel)

*The English translations of Daniel Sennert's work by Cole and  
Culpeper: A transformation of authorship*

**Simone Zweifel**

(University of St. Gallen)

*Early Modern Printed Recipe Books: The seventeenth-century  
transfer of continental knowledge to Britain*

### 31. After Newton

NF 119

**Chair:** Cornelis J. Schilt

**Matias Slavov**

(University of Jyväskylä)

*Newtonianism in Hume:  
Initiating an Intermediary Reading*

**Robert L. Knetsch**

(Wycliffe College)

*Hutchinsonianism, Newtonian Science, and a  
Fragmenting World*

**Jip Van Besouw**

(Free University of Brussels)

*W. J. 's Gravesande (1688-1742): 'Newtonian'  
methodology and the demarcation of disciplines*

10:30 – 11:00

EM 119

COFFEE BREAK

11:00 – 12:30

### 32. Antiquarianism

EM 001

**Chair:** Filip Malešević

**Bernd Kulawik**

(Bibliothek Werner Oechslin)

*The 'Accademia della Virtù' – The first international  
interdisciplinary research network and its still  
un-identified production*

**David Beck**

(University of Warwick)

*Antiquarianism and the methodology of science in England to  
the turn of the eighteenth century: close and distant readings*

**Scott Bevell**

(University of Tennessee)

*From Antiquarian Pursuits to an Academic Discipline: The  
Case of Anglo-Saxon Studies in  
Early Modern England*

### 33. Reading/Reworking Ancient Sources

EM 108

**Chair:** Vittoria Feola

**Steve Matthews** (The University of Minnesota, Duluth)  
*Theosis and Early Modern Anthropology:  
Pico, Ficino, Stapulensis, and their influence*

**Ovanes Akopyan** (University of Warwick)

*Theories of Tides in Early Modern Europe:  
from Astrological Speculation to Scientific Solutions*

**Stephen I. Wagner**

(St. John's University/  
College of St. Benedict, Minnesota)

*The Neoplatonic Foundation of Descartes' Scientia*

### 34. Renaissance and Early Modern Thought

NF 113

**Chair:** Matteo Valleriani

**Timothy Ashley Daniels**

(Utah State University)

*"Desiring by all good means to attain a perfect knowledge  
how to Plant, preserve, and maintain the blessings of God:"  
Investigating the Significance of Timber Management in  
Jacobean England*

**Lucia Dacome**

(University of Toronto)

*Renaissance Perspirations: Santorio Santorio  
and the Healthy Body of the Venetian Republic*

**Cynthia M. Pyle** (New York University)

*Scientific and Applied Renaissance Humanism*

### 35. States of Mathematical Knowledge in Early Modern Europe

NF 119

**Chair:** Sven Dupré

**Raz Chen-Morris**

(The Hebrew University of Jerusalem)

*What else is a Kingdom but a Harmony?  
The Poetics of Kepler's Telescope and the Question  
of Sovereignty in Early Modern Europe*

**Aviva Rothman**

(University of Chicago)

*Kepler and the role of the  
"non-partisan" mathematician*

**J.B. Shank**

(University of Minnesota)

*The Sovereign as Turner, or  
Making the Baroque State at the Lathe*



12:30 – 1:30

LUNCH

1:30 – 3:00

**36. Proof and Plausibility**

EM 108

Chair: James Dougal Fleming

**Yelda Nasifoglu**

(McGill University)

*The analogical correspondence between Robert Hooke's natural philosophical work and architectural practice*

**Mark A. Waddell**

(Michigan State University)

*The Weapon Salve and the Problem of Plausibility*

**Tomas Nejeschleba**

(Palacky University Olomouc)

*Valeriano Magni: Is Modern Science Compatible with an Scholastic Philosophy and Metaphysics?*

**37. Entangled histories of early modern translation, empire, and knowledge production**

EM 001

ROUNDTABLE

**Harold J. Cook**

(Brown University)

**Carla Nappi**

(University of British Columbia)

**E. Natalie Rothman**

(University of Toronto)

**38. Self-Fashioning**

NF 113

Chair: Kevin Siena

**Michael Stolberg**

(University of Würzburg)

*Between the matula and the quill. The professional self-fashioning of humanist physicians*

**Nicholas Overgaard**

(University of Toronto)

*'Sarsi vs. Guiducci' or 'Grassi vs. Galileo'? Identity in the Dispute on the Comets of 1618*

**Samantha Sandassie**

(Queen's University, Canada)

*Gaining Credit: The Growth of Surgery in 17th Century England*

**39. Changing Explanations**

NF 119

Chair: Charlie Huenemann

**Bruce Carroll**

(New York University-Shanghai)

*The Oratio's Artisanal Ontology*

**Robert Goulding**

(University of Notre Dame)

*Reading to Atomism: the Natural Philosophy of Petrus Ramus*

**Patrick Brissey**

(Independent Scholar)

*Towards Descartes' Scientific Method of Doubt: The Rhetoric of Les Météores*

3:00 – 3:30

EM 119

COFFEE BREAK

3:30 – 5:00

EM 001

KEYNOTE

Chair: Vittoria Feola

**Anthony Grafton** (Princeton): Manus multae, cor unum? Collaborative scholarship in early modern Europe

5:00 – 6:00

EM 001

GENERAL MEETING

# Call for Papers

Scientiae 2015 invites fully revised papers for consideration in an edited and peer-reviewed volume to be published by Brill. Papers will be selected on the basis of originality and thematic continuity across the volume. The volume will be edited by James A.T. Lancaster (Warburg Institute) and Richard Raiswell (University of Prince Edward Island), with a view to publication in 2016.

Contributions should be revised thoroughly for print publication (roughly 8,000-12,000 words, including all documentation and critical apparatus). Authors should consult the MHRA style guide, which is available to download for free at [www.mhra.org.uk](http://www.mhra.org.uk), for the appropriate formatting conventions.

Please use British spelling or, if not clear, the Oxford English Dictionary. Individual authors are responsible for securing the rights to any illustrations prior to publication.

Given the large number of high quality papers resulting from a conference of this size, we will only be able to publish a select number of articles. In making their decisions, the editors will have to consider a wide range of factors (methodological and thematic coherence of the collection, scholarly originality and innovation of contributions, etc.). The final decisions for inclusion will not necessarily reflect on the scholarly merit of submitted papers.

We ask that all submissions be sent in MS Word format to [james.lancaster@postgrad.sas.ac.uk](mailto:james.lancaster@postgrad.sas.ac.uk) by 5 October 2015.



**@AcadScientiae #Scientiae2015**