

## BSHS Annual Conference 2010 Full Listing of Academic Sessions

Please arrive early to ensure that you secure a seat as some sessions may be over-subscribed.

### Friday 23 July 2010

#### Academic Sessions 1

9.00-11.00

Ecology and Natural History

Venue: Catherine Gavin Room

Chair: *Sabine Clarke*

Of Plants and Volcanoes: Studying the Natural World in Late Colonial Central America, c.1790-1800

*Sophie Brockmann*

Remaking Natural Knowledge: Recycling in the History of Science & Medicine

*Simon Werrett*

Science, the South Pole, and the Japanese Expedition of 1910-1912.

*William R. Stevenson III*

The Practice of Alchemy in Medieval and Early Modern Europe

Venue: Carnegie Room

Chair: *Stephen Clucas*

The Alchemist's Dilemma: Distilling Practices from Texts

*Jennifer Rampling*

Trial and Error: Alchemy and Assay in the Middle Ages

*Stephanie Seavers*

Dissecting manuscripts: Alchemy, Medicine and the Historian

*Anke Timmermann*

Archaeological approaches to early modern chymistry: old materials, new questions

*Marcos Martín-Torres*

***We would like to thank the Society for the History of Alchemy and Chemistry (SHAC) for sponsoring this session***

Nutrition Science and its applications

Venue: Multimedia Room

Chair: *Ida Stamhuis*

Milk, the history of science, and material politics

*Peter Atkins*

Milk, Mortality and Moral Reform: Canadian Government Nutrition Policy, 1874-1919

*Monika Pries-Klassen*

Setting Nutritional Standards in late nineteenth-century Germany and the US

*Elizabeth Neswald*

World War II and nutrition cultures: professional and popular

*David Smith*

**Visit to the Natural Philosophy Collection at Marischal College.**

**Please register for this visit at Registration. Participants should meet at King's Hall and Crombie Reception at 08.30.**

#### Academic Sessions 2

11.30-1.00

The lessons of animal regeneration: New studies in late C19th and early C20th biology

Venue: Catherine Gavin Room

Chair: *Duncan Wilson*

The productivity of cut-and-paste: The Mexican axolotl, regeneration research and the importance of experimental practices

*Christian Reiss*

Historicizing or analysing organisms (or both)?: The Weismann-Morgan controversy over animal regeneration re-examined

*Maurizio Esposito*

Dominance subverted: Animal regeneration research in W. F. R. Weldon's critique of Mendelism

*Gregory Radick*

### Translating Technologies

Venue: Carnegie Room

Chair: *James Sumner*

Reconstructing HMAS *Warrego* and the Transfer of Shipbuilding Knowledge  
*Klaus Staubermann*  
'Somebody fresh to go into the problem': Metropolitan Vickers, the Air Ministry, and the axial gas turbine.  
*Jakob Whitfield*  
Failure in practice: bankers, blame and computing technology  
*Ian Martin*

### Astronomy

Venue: Multimedia Room

Chair *Michael Barany*

Exporting Greenwich: the Royal Observatory as a model for imperial observatories  
*Rebekah Higgitt*  
Automation and Informality in Modern Danish Astrometry  
*Karin Tybjerg*  
Funding radio astronomy in the Netherlands, 1945-1960  
*Astrid Elbers*

### Machines and Metaphors

Venue: Taylor A 26

Chair: *tbc*

From machine to mind: the sixteenth century and the interdisciplinarity of the concept of automatism  
*Margarida Medeiros*  
Lewis Mumford, Franz Reuleaux, and the Archetypal Machine  
*Richard C Gunn*  
Hobson and the Machine  
*Daniel Wilson*

13.00-14.00

Delegates are invited to visit a display of manuscripts, rare books and artefacts from the University of Aberdeen Collections in the Old Senate Room

Jon Agar, *British Journal for the History of Science* editor will host a 'meet the editor' session in the Multimedia Room

### Academic Sessions 3

2.00-4.00

Early modern astronomy in context

Venue: Catherine Gavin Room

Chair: *Nicholas Jardine*

The construction of astronomical instruments (c. 1600)  
*Arjen Dijkstra*  
"Queen Reason" and the "Slave Senses" – Astronomy and Geometry in Thomas Digges' *Alae seu scalae mathematicae* (1573)  
*Katie Taylor*  
Reading mechanics, writing astronomy: The incorporation of Galileo's 1638 *Two New Sciences* into later seventeenth-century astronomical treatises  
*Renée Raphael*  
The Astronomer's Role and the Natural Philosopher's Role in the Sixteenth Century Reconsidered: the Case of William Gilbert  
*Stephen Pumfrey*

Bullets and Bodies: Twentieth-century forensics in theory and practice

Venue: Carnegie Room

Chair: *Graeme Gooday*

'Scientific Aids to Criminal Investigation': The Achievement of Administrative Objectivity in Forensic Sciences  
*Alison Adam*  
Forensic Expertise, Lay Knowledge, and the Search for Identity in the Crippen Case  
*Fraser Joyce*  
Insurrection and Innovation: The Assassination of Lee Stack and the 'Birth' of Ballistics  
*Nicholas Duvall*  
Spaces and Traces: The making of the modern "Crime Scene"  
*Ian Burney and Neil Pemberton*

## Beauty and Wonder

Venue: Multimedia Room

Chair: Ralph O'Connor

Alexander Walker and Herbert

Spencer: A Victorian Science of

Beauty?

*Antoinette Curtin*

"Everything gives way to  
experiment": empiricism and beauty  
through the history of the Wedgwood  
family

*Chiara Ceci and Stefano Moriggi*

Nebular Visions: Illustrating the

Architecture of the Heavens

*Jim Secord*

The Fairy-Tales of Science

*Melanie Keene*

## Curators and Collections

Venue: Old Senate Room

Chair: Neil Curtis

Re-uniting the Parts: finding the links  
in the Aberdeen collections

*Jenny Downes*

Revealing the Hidden Collections:  
university museums in Scotland

*Neil Curtis*

Six centuries of medical teaching: the  
history of medicine archives at the  
University of Aberdeen

*Siobhán Convery*

Followed by round table where these  
presenters will be joined by John Reid and  
Nigel Trewin

## Academic Sessions 4

**4.30-6.00**

Science on Stage and Screen

Venue: Catherine Gavin Room

Chair: Sally Horrocks

Butlins and the Bomb: *Uranium 235*,  
Class and Nuclear Culture in Postwar  
Britain

*Jeff Hughes*

Lawrence Bragg, C.P. Snow and the  
'Two Cultures'

*Frank A.J.L James*

'The Revealing Eye': The Royal  
Society and the Moving Image at the  
Time of the Tercentenary

*Tim Boon*

## Technologies of Evolution Studies:

contextualising contemporary techniques

Venue: Carnegie Room

Chair: *Greg Radick*

How to make a dinosaur: The  
technologies of fossil preparation

*Caitlin Donahue Wylie*

Shaping genetic notation: contexts and  
identities of the Rhesus blood groups,  
1941-1951

*Jenny Bangham*

Darwin and the Tree of Life: The Roots  
of the Evolutionary Tree

*Nils Petter Hellstrom*

## Rhetoric and Representation

Venue: Multimedia Room

Chair: *Stephen Gaukroger*

Representative Practices in Art and  
Science, 1880-1914

*Chiara Ambrosio*

Eighteenth-century instruments as  
rhetorical devices

*Florence Grant*

Natural History in England, 1650-  
1720: Representation, Rhetoric,  
Poetics, Aesthetics

*Alexander Wragge-Morley*

## Psychology

Venue: Taylor A 26

Chair *t.b.c.*

The Illusion of Intelligence:  
Technology, Conjuring, and  
"Psychology" in Nineteenth-Century  
London

*Sarah Kriger*

Heads in hands: physiological  
psychological rhetoric and laboratory  
pedagogy in 1870's Britain.

*Tom Quick*

Musical Brainwashing: The Dangers of  
Music between Cold War Psychology  
and Reagan Era 'Satanic Panic'

*James Kennaway*

## Saturday 24 July

### Academic Sessions 5

9.00-11.00

John Tyndall and his Audiences

Venue: Catherine Gavin Room

Chair: *Efram Sera Shriar*

John Tyndall: Lecturing, Authority and Correspondence in Victorian Public Science

*Graeme Gooday and Jamie Stark*

Working Wonder: Tyndall and the Making of Victorian Scientific Performances

*Iwan Morus*

John Tyndall and Theology: The Definition and Boundaries of Science

*Ursula DeYoung*

Following your example at a distance:

The Carlylean balancing of John

Tyndall and James Crichton-Browne

*Mike Finn*

Nuclear Science and the Cold War

Venue: Carnegie Room

Chair: *Jeff Hughes*

Niels Bohr's Philosophical

Background: a Thematic Proposal

*Roberto Angeloni*

Joseph Rotblat and the Manhattan Project

*Martin Underwood*

The atomic cloister: secrecy and the shaping of technical identity, 1940-60

*Sean F. Johnston*

Dad's Radioactive Army: Scientists, Engineers (and Philosophers) as

Volunteers after Chernobyl

*Jon Agar*

Artifacts: Material culture, music and sound

Venue: Multimedia Room

Chair: *Tim Boon*

Music Technology and Physical Effort

*Katy Price*

Bellowphones and Blowed Strings:

The Auxeto-Instruments of Horace

Short and Charles Algernon Parsons

*Aleks Kolkowski*

Stockhausen meets King Tubby: The stepped filter and its Influence as a musical instrument on two different styles of music

*Sean Williams*

The Oramics Machine and Daphne

Oram: Relationships between

Instrument and Aesthetic

*Mick Grierson*

Biological and Biomedical Sciences

Venue: Taylor A 26

Chair: *Daniele Cozzoli*

"A Cell is Not an Animal": Crossing Species Barriers during the 1960s.

*Duncan Wilson*

Historiographical considerations on the introduction of protein

sequencing into Spanish biomedical

research (1968-1998).

*Miguel García-Sancho*

OEC Welcome (9.30)

Venue: Taylor A 31

followed by 'Grants from the OEC', *Sabine Clarke*

### Academic Sessions 6

11.30-1.00

Medieval

Venue: Catherine Gavin Room

Chair: *Anna Marie Roos*

Like Stirrups and Sugar: Polydore

Vergil and the Problem of Unknown

Inventors

*Shana Worthen*

Evidence In Medieval Natural History:

Constructing natural knowledge in the

*De animalibus* of Albertus Magnus

*Gwyndaf Garbutt*

Human bodies in Ottoman medical

texts and images

*Rainer Brömer*

## Chemistry

Venue: Carnegie Room

Chair: *Matthew Eddy*

Pasteurising the brewery: applied science, internal history and trade defence

*James Sumner*

Chemical Atomism:

Underdetermination Revisited

*Hasok Chang*

The Relevance of Experimentation in Joseph Priestley's Studies on the Two Electrical Fluids

*Elisa Cristina Oliosi*

## Nineteenth century

Venue: Carnegie Room

Chair: *Iwan Morus*

Great expectations in Modern Times - Prefaces, intentions and fallacies in science textbooks of the 19th century

*George N Vlahakis*

Onwards facing backwards- Images of science in speeches and writings of 19th century Greek scientists

*Konstantinos Tampakis*

Savage Numbers: Counting and the Evolution of Civilisation, 1863--1892

*Michael Barany*

## Geology and Earth Science

Venue: Taylor A 26

Chair: *Leucha Veneer*

An amalgam of contrasting theories behind the obtention of an accurate method of mineral analyses in the 18<sup>th</sup>

Century

*Andréa Bortolotto*

Aesthetics of architecture and geology in Britain during the first half of the nineteenth century

*Allison Ksiazkiewicz*

How the Stomach Ruled William

Buckland's Geology

*David Allan Feller*

## Museums and Popular Science

Venue: Taylor A26

Chair: *Victoria Carroll*

"Visitors Welcome" – Teylers Museum around 1800

*Martin Weiss*

Palaeontology in Parts: Serializing Science in the *Penny Cyclopædia*

1833–43

*Gowan Dawson*

OEC: Making the Perfect War Horse: Exploring Object Centred Events

Venue: Multimedia Room

*Elizabeth Hallam and Anna Maerker*

## OEC

Venue: Multimedia Room

Engaging Audiences at Aberdeen Museums

*Jenny Brown*

## Academic Sessions 7

2.00-3.30

Bacon

Venue: Catherine Gavin Room

Chair: *Koen Vermeir*

Rereading Francis Bacon's *Novum Organum*

*Ian G. Stewart*

Francis Bacon and mechanical arts: the early Stuart patent system

*Cesare Pastorino*

Imagination in Bacon's Experimental Science

*Doina-Cristina Rusu*

## Academic Sessions 8

4.15-6.15

Gender

Venue: Catherine Gavin Room

Chair: *David Smith*

Women in Genetics 1900 – 1930: New Scientific Workers in a New Discipline

*Ida Stamhuis*

Works' Chemist required . . . Woman graduate preferred': gender and scientific employment in Britain during World War II

*Sally Horrocks*

Electricity, food production, and domestic spatiality in mid-twentieth century Britain

*Emily Hankin*

Are mothers naturally devoted?:

Animal models and the construction of maternal instinct in the French

Third Republic

*Marion Thomas*

A Speculum of Chymical Practice: Isaac Newton, Martin Lister (1639-1712), and the Making of Telescopic Mirrors

*Anna Marie Roos*

Systems of Belief and Knowledge in the Early Modern Science

*B. Thaliath*

OEC: Songs of Science

Venue: Zeste

A partial, prejudiced and ignorant history of science in song

*Melanie Keene*

Mathematicians in love and three-foot rules: WJM Rankine's *Songs and Fables*

*Ben Marsden*

A Function of the Time: the postprandial proceedings of the Cavendish Society

*Jeff Hughes*

Darwin and Evolution

Venue: Carnegie Room

Chair: *Fern Elsdon-Baker*

Charles Darwin really was the naturalist on HMS Beagle

*John van Wyhe*

Wallace, spiritualism, and anthropology at the BAAS: A new interpretation

*Juan Manuel Rodriguez Caso*

Gavin de Beer and the notion of mosaic evolution

*Silvia Caianiello*

The evolutionary archive

*Katrina Dean*

Early Modern

Venue: Multimedia Room

Chair: *Jennifer Rampling*

Vampires and the powers of imagination: a study of the first medical tracts on vampirism (1659-1755)

*Koen Vermeir*

Poisonous Vapours: The "Sadducismus Triumphatus" and Joseph Glanvill's science of witchcraft

*Julie Davies*

## Sunday 25 July

### Academic Sessions 9

9.00-11.00

Eighteenth-century

Venue: Catherine Gavin Room

Chair : *Hasok Chang*

Apologetics in Eighteenth-Century

Europe: Beyond the Great Divide

*José Alberto Silva*

D'Alembert and Euler and mid-

eighteenth century rational

mechanics: What mechanics does not

tell us about the world

*Stephen Gaukroger*

18<sup>th</sup> Century Crossroads: Chemistry

and Medicine, Theory & Practice

*Silvia Waisse, Ana M. Alfonso-Golfarb*

*& Marcia H. M. Ferraz*

Dissecting the Soul: William Cullen

and Medical Theory during the

Scottish Enlightenment

*Jeff Wolf*

Visual

Venue: Carnegie Room

Chair: *Alexander Wragge-Morley*

Linnaeus and the visual

representation of nature

*Isabelle Charmantier*

Pictures and Pedagogy: the role of  
diagrams in Feynman's early lectures,  
1949-50

*Ari Gross*

The image as instrument. Moving

images in Albert Michotte's

Psychological Laboratory.

*Sigrid Leyssen*

New Perspectives on the Great Exhibition  
and Crystal Palace

Venue: Multimedia Room

Chair: *Frank James*

Championing Science and the Great  
Exhibition of 1851

*Geoffrey Cantor*

1851: Struggling To Describe The  
Indescribable

*Nick Fisher*

Ethnology At The Crystal Palace:

Robert Gordon Latham, Visual

Enskilment, And Local Sites Of

Learning

*Efram Sera-Shriar*

Exhibiting The Visual: Photography

And The Crystal Palace

*Geoffrey Belknap*

### Academic Sessions 10

11.30-1.00

Crossing boundaries: the practices of  
marine natural history in the eighteenth  
century

Venue: Catherine Gavin Room

Chair: *Anna Maerker*

The zoophyte problem, or, the  
chemical animal in natural history

*Susannah Gibson*

Continents from animalcules

*Alistair Sponsel*

Classifying imperfection, or, how to  
observe marine plants

*Anne Secord*

Instruments on Display

Venue: Carnegie Room

Chair: *Becky Higgitt*

Power Relationships in Basic  
Measurement

*Jane Wess*

People, weather, objects: New stories  
from the stores

*Vicky Carroll*

"Matter and light- From lightning to

X-rays: Removing the air" Teaching

proposal for the exploration of a  
historical scientific instrument

collection

*Flora Paparou*

Science and Industry since World War II

Venue: Multimedia Room

Chair *t.b.c.*

European oil prospecting in the early  
Cold War

*Leucha Veneer*

The Discovery of the Early

Antihistaminic drugs

*Daniele Cozzoli*

The making of an entrepreneurial  
science: biotechnology in Britain,  
1975-1995

*Soraya de Chadarevian*