



Piers J. Hale

Department of the History of Science
 University of Oklahoma
 601 Elm, Rm.610
 Norman, Oklahoma
 73019-3106
 United States

Tel. office: (405) 325-3392
 Fax: (405) 325-2363
 Email: phale@ou.edu

AREAS OF SPECIALISATION

Evolution and Society
 History of Modern Science, Technology & Environment
 Biomedical and Environmental ethics
 Intellectual and Cultural History of Modern Britain
 British Labour and Gender History

PROFESSIONAL QUALIFICATIONS

Ph.D. Department of History, Lancaster University, England, 2003.

M.A. (Distinction), Department of History, Lancaster University, England, 1995.

B.A. (Hons.) (First Class), History, School of Humanities and Social Sciences, University of Glamorgan, Wales, 1993.

EMPLOYMENT, HONOURARY APPOINTMENTS & SOCIETY FELLOWSHIPS & MEMBERSHIPS

Current employment:

2007- *Assistant Professor in the History of Modern Science*, Department of the History of Science, University of Oklahoma, Norman Oklahoma, United States.

Honorary appointments:

2010- *Fellow of Furness College*, Lancaster University, England.

2003- *Honourary Research Fellow*, Department of Science and Technology Studies, University College London, England.

Fellowships and Memberships of Professional Societies:

Fellow of the Linnean Society of London.

Fellow of the Geological Society of London.

Member of the Royal Historical Society

Member of the International Society for the History, Philosophy & Social Studies of Biology.



Member of the History of Science Society.

Member of the American Association for the Advancement of Science.

Member of the Devonshire Association for the Advancement of Science, Literature and the Arts.

Previous employment:

2005-2007: *Visiting Assistant Professor in Science Technology and Society*. Science, Technology and Society Program, Colby College, Maine, United States.

2003-2005: *Postdoctoral Research Fellow in the History of Science*. Department of Philosophy and Interdisciplinary Studies Graduate Program, University of British Columbia, Canada.

2003: *Temporary Lecturer*. Department of Science and Technology Studies, University College London, England.

2002: *Temporary Lecturer in the History of Science*. Institute of Technology, University of Minnesota, United States.

RESEARCH

I have two ongoing manuscript projects that seek to expand our understanding of the relationship between evolutionary thought and cultural politics.

Manuscripts in progress:

Political Descent: Social evolution from Victorian England to the genetic age.

Political Descent charts the arguments over the human nature and the kinds of society that we might live in that erupted in the middle of the nineteenth-century in response to our understanding of ourselves as evolved animals. Charles Darwin and Herbert Spencer are only the most obvious characters in this story, but even here there is a new story showing just how deeply political evolutionary biology was from the first. This was a debate over the sort of creature we are and how we might live in consequence was taken up by Thomas Huxley and Peter Kropotkin, setting the scene for ideological conflict in which socialists and liberals of all shades readily joined.

Political Descent takes this story up to the early 1920s, the early days of genetics, and ambivalence about the prospects of such sociobiological thought.

Evolution as Parable: Water Babies and Charles Kingsley:

In collaboration with John Beatty (Dept. of Philosophy, UBC)

(Under contract with Chicago University Press)

The nineteenth-century theologian and Christian socialist Charles Kingsley was an avid evolutionist. An avid reader of Darwin and a close friend of Thomas Huxley, Kingsley thought seriously about evolution and its implications for humanity and Christianity, and he explored these ideas in a number of works and in his correspondence with contemporary men of science. His most deep and considered writing on this subject however, was the children's fairy story *Water Babies* (1863). We seek to draw attention to Kingsley and argue that he was a significant figure in the Darwinian Revolution.



Further Research Collaborations:

2012- : *Charles Kingsley Correspondence Project.*

I am currently working to accumulate, transcribe and publish the correspondence of the nineteenth-century Anglican theologian and science populariser Charles Kingsley. Kingsley was a significant figure in the nineteenth century debates about science, religion and politics. Throughout his life he associated with radical chartists, journalists, philosophers, theologians and scientists. By 1860 he had been appointed Chaplain to the Queen, Professor of History at Cambridge University and tutor to the Prince of Wales. As a result he corresponded with a wide array of some of the most significant men and women of the day as well as from working men and women. The publication of Kingsley's correspondence will give us a valuable insight into this important period of history. I currently work with one undergraduate research assistant on this project.

2009-2011: *Victorian Science and Literature.*

Victorian Science and Literature, General Editors: Gowan Dawson and Bernard Lightman
Co-editor of Volume One: *Negotiating Boundaries*. See details below.

This eight-volume, reset edition collects rare primary sources on Victorian science, literature and culture. Science had a fundamental effect on the Victorian world. Previously, 'science' was used to refer to knowledge of a quite general kind, but during the nineteenth century science became more formalized as it grew to encompass new and emerging disciplines. The growing influence of science on Victorian culture can be seen in almost every aspect of life; from industry, urbanization and the spread of imperialism, to religion and the impact of Darwinism.

Oct. 2009 – Dec. 2011: Senior Personnel, John Tyndall Correspondence Project.

National Science Foundation Award no: SES-0924426. Principal Investigator: Dr. Michael Reidy, Montana State University. I employed one graduate student and one undergraduate student on this project.

PUBLICATIONS

Books:

In progress:

Political Descent: Social Evolution from Victorian England to the Genetic Age.

"Evolution as Parable: Charles Kingsley and the *Water Babies*", (with John Beatty.)

Edited Volumes:

Piers J. Hale & Jonathan Smith, (eds.) *Negotiating Boundaries*. Vol.1 in the series *Victorian Science and Literature*, Pickering & Chatto. Series editors, Bernard Lightman & Gowan Dawson.

Articles and Book Chapters:

"Darwin's Other Bulldog: Charles Kingsley and the popularization of evolution in Victorian England" *Science & Education*, (2011), DOI:10.1007/s11191-011-9414-8.

"William Morris, Human Nature and the Biology of Utopia". In Bennett P. & Miles R., (eds), *William Morris in the Twenty-First Century*, Oxford: Peter Lang, 2010, pp.107-28.

ISBN: 978-3-03430-106-0



“Of Mice and Men: Evolution and the Socialist Utopia. H.G. Wells, William Morris and George Bernard Shaw.” *Journal of the History of Biology*. 43, 1, 2010, pp.17-66.

“*Water Babies: An Evolutionary Fairy Tale*”, with John Beatty, *Endeavour*, Vol. 32, No.4, 2008, pp.141-46.

“The Search for Purpose in a Post-Darwinian Universe: George Bernard Shaw, ‘Creative Evolution’, and Shavian Eugenics: ‘The Dark Side of the Force’ ”. *History and Philosophy of the Life Sciences*, 28, 2, (2006), 191-214.

“Labor and the human relationship with nature: The naturalization of politics in the work of Thomas Henry Huxley, Herbert George Wells, and William Morris”, *Journal of the History of Biology*, 36, 2, (2003): 249-284.

Forthcoming:

“Debating waste, nature, and justice in nineteenth-century England: Herbert Spencer, Thomas Huxley, and William Morris”, in (eds.) John Scanlon & John Clark, *The World Turned Inside Out: Waste in History and Culture*, (Cambridge Scholars Press, forthcoming.)

In progress:

“Monkeys into men and men into monkeys: contingency and caprice in Charles Kingsley’s *Water Babies*”

“A Liberal Descent: Charles Darwin and the politics of evolution”

With John Beatty,

“Charles Kingsley’s *Water Babies: Embryology and Education*”

Encyclopedia and dictionary entries:

“Clarke, Louisa” in *Dictionary of Nineteenth Century British Scientists*. Ed. Bernard Lightman. Bristol: Thoemmes Continuum Press, 2004, vol. 1, 436-7.

“Veitch, James” v. 4, 2068-9

“Wilson, William” v. 4, 2178-9.

Book Reviews:

David Sloan Wilson, *The Neighborhood Project*, in *Quarterly Review of Biology*, (3000 word lead essay review), (forthcoming June 2012).

Lee Dugatkin, *Prince of Evolution*, in *Journal of the History of Biology*, (in press).

William Brown & Andrew C. Fabian, *Darwin*, in *Quarterly Review of Biology*, (in press).

Ian Hesketh, *Of Apes and Ancestors*, in *Victorian Review*, 37:1 (2012).

David Sloan Wilson, *The Neighborhood Project*, in *Journal of the History of Biology*, published online 22 December 2011, DOI: 10.1007/s10739-011-9315-3.

Mark E. Borrello, *Evolutionary Restraints*, in *History and Philosophy of the Life Sciences*, 33, 3, (2011): 418-21.



David N. Reznick, *The Origin Then and Now. An Interpretive Guide to the Origin of Species*. In *Reports of the National Center for Science Education*, 31.2, 6.2, (Mar-Apr 2011).

Krishna Dronamraju, (ed.), *What I Require from Life. Writings on Science and Life from J.B.S. Haldane*. in *Journal of the History of Biology*, Vol.42, No.2, May 2009. pp. 381-385.

Keith Thomson, *The Young Charles Darwin* in *Quarterly Review of Biology*, 84(3), 2009:281-2.

Michael W. Taylor, *The Philosophy of Herbert Spencer*. in *History and Philosophy of the Life Sciences*, 30, 2008, 109-10.

John Glandening, *The Evolutionary Imagination in Late-Victorian Novels. An Entangled Bank*. in *Journal of the History of Biology*, 2008, 41, 2,: 394-8.

Maxine Schwartz, *How the Cows Turned Mad*, in *Journal of the History of Biology*, 2006, 39: 407-424.

Spencer R. Weart, *The Discovery of Global Warming*, in *British Journal for the History of Science*. March 2006, 39, 1: 149-50.

Douglas R. Weiner, *Models of Nature: Ecology, Conservation and Cultural Revolution in Soviet Russia*, in *British Journal for the History of Science*, June 2004, 37, 2: 219-20.

Stuart McCook, *States of Nature: Science, Agriculture, and Environment in the Spanish Caribbean, 1760-1940*, in *British Journal for the History of Science*, June 2004, 37, 2: 215-16

Pedar Anker, *Imperial Ecology: Environmental Order in the British Empire, 1895-1945*, in *British Journal for the History of Science*, June 2003, 36, 2: 248-50

Charles Elton, *Animal Ecology*, in *British Journal for the History of Science*, 2002, 35, 3: 373-4.

INVITED KEYNOTE / PLENARY ADDRESS

“Political Descent: Evolution, Man and Society, from Victorian England to the post war world”, Plenary Address, International Society for the History, Philosophy, and Social Studies of Biology, University of Utah, July 11th 2011.

“A Liberal Descent: Charles Darwin and the Politics of Evolution”. Keynote Address, 3rd Annual Undergraduate Conference in the Humanities and Social Sciences, Clarkson University, New York, April 14th 2011.

“Charles Kingsley, Thomas Huxley and Water Babies”. Stuart Pierson Memorial Lecture. 53rd Midwest Junto for the History of Science. University of Oklahoma, 27 March 2010.



INVITED COLLOQUIA

“Post Darwinian Natural Theologies in England and America: Charles Kingsley and Asa Gray”, Center for Philosophy and History of Science, Boston University, April 24th 2009.

“Post Darwinian Natural Theologies in England and America: Charles Kingsley and Asa Gray”, Center for Philosophy and History of Science, Oregon State University, February 20th 2009.

“Post-Darwinian Natural Theologies in England and America: Charles Kingsley and Asa Gray”, Biology Department, Austin College, Texas, September 24th 2008.

“Charles Darwin, Evolution and Religion in England and America”, Alumni College, Colby College, June, 2008.

“Darwin’s Other Bulldog: Charles Kingsley, and the popularization of Darwinism in Victorian England” Zoology Department, University of Oklahoma, United States, January 2008.

“Darwin’s Other Bulldog: Charles Kingsley, Thomas Huxley and the debate over post-Darwinian Natural Theology”, History of Science Department, University of Oklahoma, United States, December 2006.

“Darwin’s Other Bulldog: Charles Kingsley, Evolution and Education in Victorian Britain”, Science, Technology, and Society Program, Colby College, United States, October 2006.

“The Bread and the Roses: Justice and Nature in Environmental Thought”, Environmental Studies Program, Colby College, United States, October, 2006.

“Charles Kingsley’s *Water Babies*, Embryology and Education”, Interdisciplinary Nineteenth-Century Studies Group Colloquium, University of British Columbia, Canada, November 16th, 2005.

“Charles Kingsley, *The Water Babies* and Evolutionary Biology”, Humanities 101 Community Program, University of British Columbia, Canada, April 2005.

“Evolution in Fiction: H.G. Wells’ *Time Machine*”, Science, Technology and Society Colloquium, Colby College, Maine, United States, February 2005.

“Of Mice and Men: Evolution and Utopia in the Work of Herbert George Wells and George Bernard Shaw”. Interdisciplinary 19th Century Studies Group Colloquium, University of British Columbia, Canada, March 2004.

“Evolution and the Eclipse of Utopia: British Socialism, 1883-1900”, History Department Colloquium, University of British Columbia, Canada, October 2003.

“Evolution and the Eclipse of Utopia: British Socialism, 1883-1900”, Colloquium in the History of Science & Technology, University of Minnesota, United States, September 2003.



“Waste, justice, and the environment in late-nineteenth century socialism”, AHRB Research Centre for Environmental History inaugural workshop: *The Languages of Waste*, University of St. Andrews, Scotland, September 2003.

CONFERENCE PAPERS

“Collaborative Teaching in the Classroom and in the Field: Teaching Evolution and Its History from the Rainforest to the Galapagos”. A paper in the panel presentation: “Linking the Past and the Present: A Discussion of Collaboration Between Historians and Practitioners in the Classroom, the Field and the Laboratory (Committee on Education sponsored roundtable). Panel includes: Piers Hale*, Mark Borrello, Jamie Elwick and David Sepkoski. History of Science Society annual meeting, Cleveland, Ohio, November 4th 2011.
(*panel organizer)

“Charles Kingsley and the popularization of evolution in England.” A paper in the panel presentation: “Defining Darwin: The Policing and Popularizing of ‘Darwinism’ in the first quarter-century after *Origin*.” Panel includes: Piers Hale*, John Lynch, T. Russell Hunter, Bernard Lightman. History of Science Society annual meeting, Phoenix Arizona, November 2009.
(*panel organizer)

“Monkeys into Men and Men into Monkeys: Caprice and Contingency in Charles Kingsley’s *Water Babies*.” A paper in a panel presentation: “Thus From the War of Nature: Caprice, Contingency and the Dreadfulness of It All.” Panel includes: Staffan Müller-Willie*, John Beatty, Piers Hale. International Society for the History, Philosophy and Social Studies of Biology, Brisbane, Australia, June 2009.
(*panel organizer)

“Environment and Justice: William Morris on labour and the evolution of socialism”, at *Chasing Eden: nature, health, and the politics of the environment*. Eden Project, Cornwall, United Kingdom, September 4th & 5th 2008.

“Post Darwinian Natural Theologies in England and America: Charles Kingsley and Asa Gray”, Columbia History of Science Group, Friday Harbor, United States, March 2008.

“George Bernard Shaw, “Creative Evolution” and Shavian eugenics”, a paper in a panel presentation: “The Dark Side of Lamarckism.” Panel includes: Piers Hale*, Kevin Francis, Jamie Elwick. History of Science Society, Minneapolis, United States, November 2005.
(*panel organizer)

“William Morris and the Biology of Utopia”, 50th Anniversary William Morris Society Conference “Morris in the 21st Century”, University of London, England, July 2005.

“Charles Kingsley, Thomas Henry Huxley and the *Water Babies*”, Columbia History of Science Group, Friday Harbor, United States, March 2005.



“A Fairy-Tale of Transformation: Charles Kingsley, *The Water Babies* and the History of Science”, Canadian Society for the History and Philosophy of Science, University of Manitoba, Winnipeg, Canada, 2004.

“The Woman Question, Socialism, and the Body in Victorian England”, Wellcome Unit for the History of Medicine, Glasgow University, Scotland, 2002.

“Ecology, Socialism and Feminism: William Morris, Robert Blatchford, and Edward Carpenter”, Centre for Science Studies, Lancaster University, England, 2001.

“Political-Ecology, Socialism and Feminism: Biology and Society in Britain at the Turn of the Century”, Postgraduate conference, Lancaster University, England, 2001.

“Socialism and Environmentalism in Britain at the Turn of the Century. An Analysis of the Utopian Fiction of William Morris and H.G. Wells”, Columbia History of Science Group, Friday Harbor, United States, 2000.

PUBLIC LECTURES

“Rethinking Darwinian Ethics: from the Origin of Species to the Descent of Man”, Darwin Day Lecture, February 12th 2012, Sam Noble Oklahoma Museum of Natural History, Norman, OK.

GRANTS & AWARDS

- 2010 University of Oklahoma 2010 General Education Teaching Award.
- Oct 2009-Dec 2011: National Science Foundation Award no: SES-0924426:
Principal Investigator: Dr. Michael Reidy, Montana State University. Hale is senior personal on ‘John Tyndall Correspondence Project.’ \$9000.00 for graduate support over two years.
- 2009 University of Oklahoma, “Summer Stipend Grant,” College of Arts and Sciences Support for Junior Faculty.
- 2008 University of Oklahoma, “Faculty Enrichment Grant,” College of Arts and Sciences Support of Teaching and Research Committee.
- 2008 University of Oklahoma “Presidential Dreamcourse” award of \$20,000 for teaching “The Darwinian Revolution” in the Spring semester of 2009.
- 2005-2006 Joseph R. Dunlap Memorial Fellowship, awarded by the William Morris Society in recognition of and support of scholarship on the socialist writer, artist and craftsman William Morris.
- 2005 Travel grant and stipend to attend the Dibner Seminar in the History of Biology, Marine Biological Laboratory, Woods Hole, Massachusetts.



- 2003 Travel grant and stipend to attend the inaugural workshop of the AHRB Research Centre for Environmental History, St. Andrews, Scotland.
- 2003 Travel grant and stipend to attend the Dibner Seminar in the History of Biology, Marine Biological Laboratory, Woods Hole, Massachusetts.
- 2002 Travel grant and stipend to attend the Dibner Seminar in the History of Biology, Marine Biological Laboratory, Woods Hole, Massachusetts.
- 2000 Travel grant and stipend to attend the Dibner Seminar in the History of Biology, Marine Biological Laboratory, Woods Hole, Massachusetts.
- 2000 Research and Travel Grant, Arts and Humanities Research Board of the British Academy.
- 1997-2001 Postgraduate Fellowship, Arts and Humanities Research Board of the British Academy.
- 1994-1995 Iredell Postgraduate Scholarship, Lancaster University.

TEACHING

Graduate students:

Completed Masters degrees:

T. Russell Hunter, "Re-thinking Asa Gray's 'Natural selection not inconsistent with natural theology'", University of Oklahoma (2009).

Student publications:

T. Russell Hunter, "Making a Theist out of Darwin: Asa Gray's Post-Darwinian Natural Theology", *Science and Education*, (2011), DOI: 10.1007/s11191-011-9388-6

Teaching Statement:

In my teaching I seek to bring my training as a social and cultural historian to bear upon the history of science and technology, but also to encourage reflection upon the potential insights that the history of science has for intellectual, social, and political histories. My aim has been to both familiarize students with significant developments in the history of science and technology and to encourage consideration of the relevance of these developments to our conceptualization of society more generally.

Courses taught:

Graduate level:

Gender and Politics in the History of Science
 History of Modern Science: Biology and Utopia
 Research Criticism and Analysis
 The Evolution of Man, Morals and Culture



Undergraduate level:

Current course taught at the University of Oklahoma:

HSCI 1003 “Science, Nature and Society”

HSCI 2213 “The Darwinian Revolution”

HSCI 2423 “Social and Ethical Issues in Science, Technology and Medicine”

HSCI 3023 “History of Science since the Seventeenth Century”

HSCI 3413 “Biomedical Ethics”

HSCI 3473 “History of Ecology and Environmentalism”

Other courses taught:

“Introduction to Science, Technology and Society”

“Introduction to the History of Science”

“Research & Methods: Readings, Writings, and Reflections in Science & Technology Studies”

“Research Ethics in Science”.

“Ethics in Science & Technology”

“Environmental Ethics: Sustainability and Justice”

“Contemporary Moral Issues”

“Science and Society: Evolution and Vivisection in Science and Science Fiction”

“Science and Religion: Galileo, Darwin, and Teaching Evolution”

Study Abroad Programs:

July-August 2010: “Charles Darwin in Galapagos: Solving the Mystery of Mysteries.”

University of Oklahoma & University of San Francisco, Ecuador. Taught in Quito, Tiputini Biodiversity Station in Yasuni National Park, and the Galapagos Islands.

Invited Teaching:

September 2009: “In Discussion with Darwin” Public Seminar Series, Sam Noble Oklahoma Museum of Natural History: Seminar title: “Difficulties on Theory.”

February 2009: OSLEP (Oklahoma Scholar-Leadership Enrichment Program): “Darwin”

Lead instructor was John Lynch from Arizona State University. Piers Hale acted as the OU faculty liaison.

October 2008: OLLI (Osher Life-Long Learning Initiative): “Darwin & Design”

A six-lecture class on the historical and philosophical relationship between Darwinian evolution and the argument from design. Students are over the age of 50 from the Norman community.

September 24th-26th 2008: Austin College, Sherman, Texas. Guest lecturer in Austin College’s “Darwin 200 Celebrations”. Taught classes in ENG “Post-Darwinian conceptions of the human relationship with nature”; PHIL “The Philosophy of Science in Darwin’s *Origin of Species*”; BIO: “Scientific and Religious Objections to Evolution: Reasons to Read *Origin of Species*”

SERVICE

Current/ongoing service:

2010- 2013 Member of the Editorial Board of the *Journal of the History of Biology*.

2008-2013 Committee on Education, History of Science Society.

(2012-2013 Chair, 2011-2012 Secretary)



2007- Member: Undergraduate Studies Committee, Department of the History of Science, University of Oklahoma.

2005- Education Committee Member, International Society for the History, Philosophy and Social Studies of Biology.

Referee work:

Broadview Press.

Journal of the History of Biology.

Victorian Studies.

ISIS.

Past service:

2010-2011 Committee Member for the 2011 University of Oklahoma School of International and Area Studies Symposium: "International Ethics for the Twenty-first Century."

2008-2009 Co-Chair: Darwin 2009 Events Steering Committee, University of Oklahoma.

2007-2009 Member: Darwin 2009 Events Steering Committee, University of Oklahoma.

2008-2009 Chair: Darwin 2009 Education Outreach Sub-Committee, University of Oklahoma.

2006-2007 Institutional Animal Care and Use Committee, Colby College.

2005-2007 Science, Technology & Society Steering Committee, Colby College.

2006 Search Committee Member, Department of Biology, Colby College.

2004-2005 Member: Steering Committee for the Interdisciplinary Nineteenth Century Studies Group, University of British Columbia, Canada.

2002-2005 Member of Lancaster University Court, Lancaster University, England.

2000-2002 Assistant Dean, Furness College, Lancaster University, England.

1999-2002 Member of Furness College "Senior College" administrative and executive body, Lancaster University, England.

1998-2002 Student Mentor and Personal Tutor, Furness College, Lancaster University, England.

References are available upon request.