1  Kristen H. Starkowski  

18  Marjorie J. Wonham, Juan Carlos Castilla, and Karin Oldfelt Hjertonsson  
Neruda’s Maremoto: Hidden Biological Treasures in Art and Poetry

43  Sophie Heuschling  
‘Don’t Ask the Questions You’ve Been Taught by Science’: Rebecca Elson’s Astronomical Poetry

62  Paul Hamann  
Under Surveillance: Genetic Privacy in Margaret Atwood’s MaddAddam Trilogy

Article Reviews

80  Kim Adams  

82  Joshua Bartlett  
Review of Mary Kuhn’s “Dickinson and the Politics of Plant Sensibility.”

84  Stuart Mathieson  
86  John C. Murray  

88  Natalie Riley  
Review of Lorenzo Servitje’s “Of Drugs and Droogs: Cultural Dynamics, Psychopharmacology, and Neuroscience in Anthony Burgess’s A Clockwork Orange.”

90  Sophie van Os  
About the JLS

The *Journal of Literature and Science (JLS)* is a peer-reviewed academic journal published twice annually in Summer and Winter. The JLS was founded in 2007, and produced its first issue at the beginning of 2008. It was originally hosted by the University of Glamorgan’s Research Centre for Literature, Arts and Science (2007-12), before moving to its own independent online site in March 2013, with the support of the University of Westminster. The journal’s first, and present, editor is Professor Martin Willis, Professor of English at Cardiff University. The Advisory Board includes leading scholars of literature and science from around the world. The JLS is published in digital format, is entirely open access, and requires no subscription fee.

The journal is dedicated to the publication of academic essays on the subject of literature and science, broadly defined. Essays on the major forms of literary and artistic endeavour are welcome (the novel, short fiction, poetry, drama, periodical literature, visual art, sculpture, radio, film and television). The journal encourages submissions from all periods of literary and artistic history since the Scientific Revolution; from the Renaissance to the present day. The journal also encourages a broad definition of ‘science’: encapsulating both the history and philosophy of science and those sciences regarded as either mainstream or marginal within their own, or our, historical moment. However, the journal does not generally publish work on the social sciences. Within these confines, essays submitted to the journal may focus on the literary and scientific productions of any nation or group.

All essays should be interdisciplinary in focus, offering an original view of both the literary or artistic subject matter and the science or sciences under consideration. While essays on individual examples of literary and artistic production are welcomed, these should also seek to show the wider significance of their analyses and interpretations. The journal does not publish essays focused exclusively on literature or art, or exclusively on the history and philosophy of science.

Submission and Citation Information

Abstracts and articles for submission should be sent to the Editor, Professor Martin Willis, by email only: WillisM8@cardiff.ac.uk

The JLS recommends that an initial email inquiry, including an abstract of the proposed article, should be sent in advance of completed articles in order to ensure that the subject matter is suitable for publication under the JLS’s remit.

All articles should be from 6000-9000 words in length, interdisciplinary in focus, and offering an original view of both the literary or artistic subject matter and the science or sciences under consideration. While articles on individual examples of literary and artistic production are welcomed, these should also seek to show the wider significance of their analyses and interpretations. The journal does not publish essays focused exclusively on literature or art, or exclusively on the history and philosophy of science.

All submitted articles should be presented in MLA Style, with notes kept to a minimum. *JLS* articles do not use personal pronouns (e.g. “In this article I will...” is not appropriate, while “This article will...” is appropriate). All spellings should follow British English. All submitted articles should include a short abstract (150 words maximum) below the title and author’s name and ahead of the opening sentence.

The *JLS* aims to complete the first stage of peer review (consideration of articles by the editor and advisory board) within 4 weeks of submission and the second stage of peer review (external, blind, double peer-review) within 8 weeks of the completion of the first stage. All authors whose articles reach the second stage of peer review should expect to have a decision on publication within approximately 12 weeks of the date of their original submission of an article.

Citing the JLS: the journal’s full title is the *Journal of Literature and Science*, and its first issue was Volume 1, Number 1 (2007). All page numbers to individual essays can be found when accessing the PDF file of that essay. The journal’s ISSN is 1754-646X. Citations should give Author, ‘Title,’ *Journal of Literature and Science* Vol, No. (Year): pp., organized according to the specific style guide being used.
Open Access Statement

The Journal of Literature and Science is committed to real and immediate open access for academic work. All of the JLS's articles and reviews are free to access immediately from the date of publication. There are no author charges (commonly known as APCs) prior to publication, and no charge for any reader to download articles and reviews for their own scholarly use. The JLS does not, therefore, operate either a Gold or Green model of open access, but is free to all at any time and in perpetuity. To facilitate this the JLS depends upon the financial underwriting provided by the University of Westminster’s Department of English, the goodwill of its editorial team and advisory board, and the continuing support of its network of peer reviewers.

The Journal of Literature and Science also operates under the Creative Commons Licence CC-BY-NC-ND. This allows for the reproduction of articles, free of charge, for non-commercial use only and with the appropriate citation information. All authors publishing with the JLS accept these as the terms of publication. Please note that copyright of the content of all articles and reviews remains with the designated author of the article or review. Copyright of the layout and design of JLS articles and reviews remains with the Journal of Literature and Science and cannot be used in other publications.

The JLS is a member of PILA (Publishers International Linking Association) and submits all articles and reviews, including all works that these cite, to CrossRef for cross-referral. To find JLS articles and reviews via their DOI numbers, use the URL http://dx.doi.org/[DOI number]

Reviews

The JLS reviews articles on literature and science, or relevant articles in cognate fields such as the history of science, cultural studies or sociology, published in academic journals within the last twelve to eighteen months. Reviews are generally commissioned by the Reviews Editor, but potential contributors are encouraged to contact the Reviews Editor to suggest articles for review.

The JLS does not, at any time, review books or collections of essays. The editors take the view that books within the field are already well covered by reviewing journals while journal articles, often the publication type that offers the most recent scholarship, are never considered in review processes. By doing so, the JLS hopes to offer its readers access to academic dialogue on the most recent advances in literature and science.

Reviews should be approximately 750 words in length, should follow MLA Style (notes generally not allowed), and should aim to describe the content of the article under review as well as offer an analysis of its strengths and weaknesses and conclude by assessing its significance for literature and science scholarship.

Proposals for review and completed reviews should be sent to the Reviews Editor, Dr Michelle Geric by email only: m.geric@westminster.ac.uk

Editorial Board

Editor: Martin Willis
Reviews Editor: Michelle Geric
Editorial Assistants: Rebecca Spear & Jim Scown
Web design: Martin Callanan
Logo: Joel Cooper
Kim Adams is a postdoctoral lecturer in the College Core Curriculum at New York University. She holds a PhD from New York University, an MA from Brown University, and a BA from Vassar College. Her dissertation, *The Body Electric*, follows the application of electricity to the human body in American literature and medicine from 1865 to 1985, arguing that electric power works to form bodies into raced, sexed, and gendered subjects. The project makes use of methods from the medical humanities, science and technology studies, media studies and literary scholarship.

Joshua Bartlett is an assistant professor in the Department of American Culture and Literature at Bilkent University. He researches, writes, and teaches in the areas of early and nineteenth-century American literature, Native American literature, literatures of the Americas, poetry studies, and ecocriticism.

Juan Carlos Castilla, Ph.D. in Marine Biology (U. of Bangor, UK) is Emeritus Professor and Doctor Scientiae et Honoris Causa, Pontificia Universidad Católica de Chile. His main areas of research are marine coastal ecology, conservation and management of small-scale fisheries. Castilla has published over 300 papers and trained more than 100 marine scientists in Chile and Latin America. He is a member of the US National Academy of Sciences, and has received numerous awards including the National Prize in Applied Sciences and Technology (2010) and the Ramon Margalef Ecology Prize (2011).

Paul Hamann is a Research Associate at the Institute of English and American Studies at the University of Hamburg, Germany. While pursuing an ongoing research focus on the history of literary engagements with genetics and proto-genetics, he is currently finalizing a monograph on the genetic renegotiation of human life in the contemporary novel. His publications include a chapter on “Genealogies of Genetics: Historicising Contemporary Science in Simon Mawer’s Mendel’s Dwarf and A.S. Byatt’s A Whistling Woman” in *Representations of Science in Twenty-First-Century Fiction*, edited by Julia Hoydis and Nina Engelhardt (2019), as well as a chapter on “Reclaiming Didacticism: Empowerment and the Representation of Science in Genetic Fiction” in *Empowering Contemporary Literature*, edited by Ralf Hertel and Eva-Maria Windberger (2020).

Sophie Heuschling is a PhD candidate at the University of Southampton. Her research interests include where and how modern poetry intersects with modern astronomy and cosmology. Her thesis investigates how contemporary poets are reacting to the increasingly abstract and strange universe that the physical sciences have revealed over the course of the twentieth and twenty-first centuries.
Karin Oldfelt Hjertonsson lives and works in Stockholm, Sweden. She has been engaged in various artistic activities. These activities included studies in oil painting in Brussels and wood cut techniques in Chile with illustrations to Pablo Neruda’s book *Maremoto*. During her years in Havana in the beginning of the 1990s she worked with lithographs, woodcuts and silk-screens on various themes from Cuban nature and wildlife. She now dedicates herself to paintings with watercolours and acrylic. Apart from Sweden, she has had exhibitions in Finland, New York, Spain and Chile.

Stuart Mathieson is a Research Fellow at Queen’s University Belfast. His main research interest is the relationship between science and religion in the long nineteenth century, and his first monograph, *Evangelicals and the Philosophy of Science*, will be published in 2020 by Routledge.

John C. Murray is a professor of English at Curry College. He received his bachelors, masters, and doctoral degrees in English from the Catholic University of America, Harvard University, and the University of Rhode Island, respectively. He published *Technologies of Power in the Victorian Period* (Cambria, 2010), and has also published various articles and reviews with Lexington Books, Palgrave Macmillan, the *Journal of Literature and Science*, the *Journal of Contemporary Thought, Nineteenth Century Studies*, and The British Society for Literature and Science website.

Sophie van Os obtained a Master’s degree in European literature, with a specialization in Irish literature, at the Radboud University in Nijmegen, the Netherlands. She is currently the editorial assistant of the international academic peer-reviewed journal *English Studies*, research assistant for the NWA project titled “Heritages of Hunger” and a postgraduate researcher for the Irish Women’s Writing Network.

Natalie Riley is a PhD candidate at Durham University. Funded by the Wellcome Trust, her project explores mind science in the contemporary novel. She has written for *The Polyphony* and *Journal of Literature and Science*, with publications in *BMJ: Medical Humanities* and *Gylphi: Critical Essays* forthcoming. She is the coordinator of the Institute for Medical Humanities ECR Network, Durham University.

Kristen H. Starkowski is a Ph.D. Candidate at Princeton University in English, where she is finishing a dissertation called *Doorstep Moments: Close Encounters with Minor Characters in the Victorian Novel*. Her research combines the study of Victorian literature with disability studies and the digital humanities. She has published articles in *Journal of Literary and Cultural Disability Studies* and *Latino Studies*. 
Marjorie J. Wonham, Ph.D., is a Professor of Life Sciences at Quest University Canada. Her focal areas of research and teaching are in marine zoology, marine ecology, and biological invasions. Her interdisciplinary research and teaching collaborations have included mathematical biology, for which she was awarded a Killam and an Honorary NSERC postdoctoral fellowship, the intersection of arts and sciences, sex and gender studies, science communication, and innovative pedagogies. She has studied, taught, and travelled in Chile and Argentina periodically since 1995, and was first introduced to the works of Pablo Neruda through Maremoto.