

Ian Stewart's full list of publications, presentation and ongoing projects

PUBLICATIONS

a. Peer-reviewed articles and book chapters

Porges, Karl, Stewart, Ian G., Hoßfeld, Uwe, & Levit, G.S. (2019a). From idea to law: Theory, concept and terminological formation in Ernst Haeckel's works. Forthcoming in *Russian Journal of Developmental Biology* 50(6). [confirmation letter from the editor attached to this CV]

----- (2019b) Russian translation, ОТ ИДЕИ К ЗАКОНУ: ФОРМИРОВАНИЕ ТЕОРИЙ, КОНЦЕПЦИЙ И ТЕРМИНОЛОГИИ В РАБОТАХ ЭРНСТА ГЕККЕЛЯ. *Ontogenez* 50(6), 1–15.

Stewart, I., Hossfeld, Uwe, & Levit, G.S. (2019). Evolutionary ethics and Haeckelian monism: The case of Heinrich Schmidt's *Harmonie* (1931). *Theory in Biosciences* 138, 189–202.

Karabanow, J., & Stewart, I.G. (2019). Between policy and practice: Ethical challenges in longitudinal applied social science research. In F. McSweeney & D. Williams (Eds.), *Designing and conducting research in social science, health and social care* (pp. 75–89). New York: Routledge.

Karabanow J., & Stewart, I.G. (2018). The art of community. In F. Klodawsky, J. Siltanen and C. Andrew (Eds.), *Toward equity and inclusion in Canadian cities* (pp. 139–158). Kingston: McGill-Queens University Press.

Karabanow, J., & Stewart, I.G. (2015). Reflections on organizational changes in street youth shelters. *Organizational Cultures: An International Journal* 14(3–4), 33–42.

Stewart, I.G. (2012). “*Res, veluti per machinas, conficiatur*”: Natural history in Francis Bacon's reform of natural philosophy. *Early Science and Medicine* 171(1/2), 87–111.

Stewart, I.G. (2005). The new *Novum Organum*. *History of Science* 43, 457–466.

Stewart, I.G. (2004). Isaac Barrow. In R. Todd. (Ed.), *The dictionary of British classicists, 1500–1960*, vol. 1. (pp. 55–58). London: Thoemmes Press.

Stewart, I. G. (2003). The Lucasian statutes: Translation and introduction. In K. Knox & R. Noakes (Eds.), *From Newton to Hawking: A history of Cambridge University's Lucasian Professors of Mathematics* (pp. 461–474). Cambridge: Cambridge University Press.

Stewart, I.G. (2000). Fleshy books: Isaac Barrow's oratorical critique of Cartesian natural philosophy. *History of Universities* 16, 35–102.

Stewart, I.G. (2000). Isaac Barrow. In A. Pyle (Ed.), *The dictionary of seventeenth-century British philosophers* (pp. 68–74). London: Thoemmes Press.

Stewart, I.G. (2000). Mathematics as philosophy: Proclus and Barrow. *Dionysius* 18, 151–181.

Stewart, I.G. (1997). 'Professor' John Flamsteed. In F. Wilmoth (Ed.), *Flamsteed's stars: New perspectives on the life and work of the first Astronomer Royal (1646–1719)* (pp. 145–166). Woodbridge: Boydell Press.

b. Book reviews and review essays

Stewart, I.G. (2019). The unavoidable tension in the "science vs policy" divide [Review essay of *Discerning experts: The practices of scientific assessment for environmental policy*, by Michael Oppenheimer et al.]. *Proceedings of the Nova Scotia Institute of Science*, 50(2). [Under review]

Stewart, I.G. (2017). *L'impossible dialogue: Sciences et religions*, by Yves Gingras. *Isis* 108(1), 103–104.

Stewart, I.G. (2012). *The body as object and instrument of knowledge: Embodied empiricism in early modern science*, edited by C.T. Wolfe. *Isis* 103(2), 402–403.

Stewart, I.G. (2012). *Cambridge companion to early modern philosophy*, edited by D. Rutherford. *Journal for Eighteenth-Century Studies* 25, 35–37.

Stewart, I.G. (2006). *Du Scribe au savant: Les porteurs du savoir de l'Antiquité à la révolution*, by Yves Gingras, Peter Keating and Camille Limoges. *Isis* 97, 732–733.

Stewart, I.G. (2004). *Isaac Newton: The "Principia": Mathematical principles of natural philosophy*, edited by I.B. Cohen & A. Whitman. *Studies in History and Philosophy of Science* 35, 665–667.

Stewart, I.G. (2003). *Francis Bacon and the transformation of early-modern philosophy*, by S. Gaukroger. *Metascience* 7, 197–201.

Stewart, I.G. (2002). *Squaring the circle: The war between Hobbes and Wallis*, by M. Jesseph. *Canadian Journal of History* 37, 135–136.

Stewart, I.G. (2002). Books and how to use them [Review essay of *Generall learning: A seventeenth-century treatise on the formation of the general scholar*, edited by R. Serjeantson]. *History of Science* 40, 233–245.

Stewart, I.G. (2001). Print culture: Promise or problem? [Review essay of *The nature of the book*, edited by A. Johns]. *Canadian Journal of History* 35 (2001), 403–409.

Stewart, I.G. (1998). *The music of the spheres*, edited by J. James. *Annals of Science* 15, 428–430.

Stewart, I.G. (1997). *The theatre of nature: Jean Bodin and renaissance science*, by A. Blair. *The Dalhousie Review* 21, 24–28.

c. Non peer-reviewed publications

Stewart, I.G. (2019). What's in a Word: Taking "Stock." Blog post <https://sshoresite.wordpress.com/>

Westwood, A., et al. (2018). *Strong foundations: Recap and recommendations from scientists regarding the federal environmental and regulatory reviews*. [Report](#) submitted to the Government of Canada, *Environmental and Regulatory Reviews*.

Stewart, I., & McMahon, D. (2016). Building bridges with the public. *World Pipelines* 16(11), 70–75.

PRESENTATIONS (since July 2010; unless otherwise indicated, presentations are solo)

a. Delivered papers for academic conferences, symposia and workshops

(2019, June). Some perspectives on socio-epistemic challenges of impact assessment. Advancing Impact Assessment in Canada's Natural Resources Sectors, University of Alberta, Edmonton, AB.

(2019, June). Public engagement in oil spill preparedness and response (OSPR): Challenges and possibilities. 42nd ECCC AMOP Technical Seminar, Halifax.

(2019, March). Environmental assessments and co-production. Working with Co-Production Workshop, University of Ottawa, ON.

(2019, October). Divine providence in things human and cosmological: Plato's *Timaeus* and Boethius' *Consolation of philosophy*. Boethius Day Symposium, University of King's College, Halifax, NS.

(2018, September). From environmental assessment to impact assessment under Bill C-69: Some science policy implications of changing landscape of federal impact assessment for offshore O&G. WWF Arctic Oil and Gas Symposium, Ottawa, ON.

(2018, August). Who's benefitting from the Kinder Morgan pipeline? Reflections on a word in different legal contexts. Commission on Legal Pluralism, Ottawa, ON. <http://commission-on-legal-pluralism.com/nl/home>

Stewart, I., Desjardins, I., Walker, T., & Doelle, M. (2018, July). Socio-epistemic contours of deliberation in CEEA-led EAs: The case of BP's Scotian basin exploratory drilling project. Inaugural Meeting of the Advancing Social Sciences and Humanities Scholarship for Impact Assessments in Canada Project, Toronto, ON.

(2018, March). Accounting for loss in fish 'stocks': A word on life as biological asset. Panel commentary on Jennifer Telesca, Social Sciences and Humanities Ocean Research and Education (SSHORE) Symposium, Halifax, NS.

(2018, February). Socio-epistemic challenges of modelling low-probability/high-consequence events. Panel contribution at Advancing Oil Spill Technology: Beyond the Horizon. Marine Technology Society Workshop, New Orleans, LA.

(2017, November). Restoring ecosystems after oil spills: Philosophical considerations and policy implications. Rotman Institute of Philosophy, London, ON.

(2017, October). Expert vs non-expert knowledge in oil spill response planning: A social sciences perspective. 40th Environment Canada and Climate Change Technical Seminar on Environmental Contamination and Response, Calgary, AB.

(2017, May). Fish vs oil: A science and technology studies perspective on a seemingly unavoidable *agon*. SSHORe Symposium, Canada's Responsibility to Our Shining Seas: Ethics, Community, Culture, 1867–2067, Halifax, NS.

(2017, March). Degrees of refraction: Transparency challenges in cases of scientific uncertainty. Clear Seas Symposium, Transparency in Oceans Science and Oceans Governance, Halifax, NS.

(2016, June). Oil spill response and social licence: A perspective from the social sciences. 39th Environment Canada and Climate Change Technical Seminar on Environmental Contamination and Response, Halifax, NS.

Stewart, I., & Wells, P. (2016, June). Diluted spills in the Bay of Fundy: An update on the scientific and technological challenges and environmental risks. Bay of Fundy Ecosystem Partnership Annual Conference. Fredericton, NB.

(2016, February). Navigating through oil spills in marine environments: Scientific uncertainty, public perception and sustainable practice. University of Ottawa Institute of the Environment Seminar Series, Ottawa, ON.

(2016, February). The 'environment' of environmental science in Canada: Recent socio-political developments, and why Scientists should care. Biology and Oceanography Departmental Seminar Series, Dalhousie University, Halifax, NS.

(2015, June). Mathematics and the voice of authority in Isaac Barrow's *Lectiones mathematicae*. Mathematics and Metaphysics Symposium, Max Planck Institute for History of Science, Berlin, DE.

(2014, May). "Science," "religion" and "science and religion" in the thought of Francis Bacon. International Workshop on Science and Religion: Historical Perspectives, Department of the History and Philosophy of the National Research University ITMO, and the Department of Philosophy of Religion and Religious Studies, Saint-Petersburg State University.

(2012, June). Interdisciplinarity and the "great text": An overview of the Canadian university experiment. Great Books, Great Questions: Interdisciplinary Liberal Arts Education in Canada, University of King's College, Halifax, NS.

(2012, June). Francis Bacon on the epistemology and physiology of sensation. 9th Biennial Conference of the International Society for the History of the Philosophy of Science (HOPOS), Halifax, NS.

(2012, May). Bacon's *Sylva sylvarum* and the reformation of the senses. The Francis Bacon Seminar, Princeton University, NJ.

(2012, March). Bacon's assessment of William Gilbert on experiment: *Theoria* and *praxis*. Creative Experiments: Heuristic and Exploratory Experimentation in Early Modern Science, 3rd Bucharest Colloquium in Early Modern Science, University of Bucharest, ROU.

(2011, June). *Ex analogia nominis, & non ex analogia universi*: Appetites of matter and the "repair" of the senses. Francis Bacon and the Materiality of the Appetites: Stoicism, Medicine and Politics, Warburg Institute, London, UK.

(2011, March). Natural history in Bacon's reform of natural philosophy. Francis Bacon and the Early Modern Reconfiguration of Natural History, New Europe College, Bucharest, ROU.

(2010, September). *Res, veluti per machinas, conficiatur*: Francis Bacon's mechanical reform of natural philosophy. Situating Science Workshop, Making Knowledge: Science, Art, and Instruments in Early Modern Europe, McGill University, Montreal, QC.

(2010, July). Rereading Francis Bacon's *Novum organum*. British Society for the History of Science, St. Andrews University, UK.

b. Invited talks, panel participations and presentations to non-university audiences

(2019, June). Interdisciplinarity and the IB core: A humanities professor's perspective. Plenary speaker, IB Schools of Ontario annual conference, Ryerson University, Toronto, ON.

(2018, June). Indigenous "versus" scientific knowledge in the IB curriculum. Ashbury College, Ottawa, ON.

(2018, October). Why do the International Baccalaureate Diploma? Ashbury College, Ottawa, ON.

(2018, October). The value of a liberal arts education. Elmwood School, Ottawa, ON.

(2018, October). Let there be light: ToK and Isaac Newton's foundation of the modern theory of light. Elmwood School, Ottawa, ON.

(2018, October). Momentum! The ancient and medieval history of a moving concept. Nepean High School, Ottawa, ON.

(2018, October). Form and function in biology: Why Aristotle is as important as Charles Darwin for modern biology. Nepean High School, Ottawa, ON.

(2018, October). Gravity: Isaac Newton's discovery of what everyone already knew. Nepean High School, Ottawa, ON.

(2018, September). From environmental assessment to impact assessment under Bill C-69: Some science policy implications of changing landscape of federal impact assessment for offshore O&G. WWF Arctic Oil and Gas Symposium, Ottawa, ON.

(2018, March). History of medicine: Its relevance to contemporary medical students. Dalhousie Science Society Symposium, Beyond Medicine, Halifax, NS. <https://www.thedss.org/events/2018/3/8/medical-sciences-humanities-event>

(2017, October). Scientific and technological expertise in the public spotlight. Workshop of Network on Persistent and Emerging Organic Pollution in the Environment (PEOPLE), St. John's, NL.

(2017, February). The politics of environmental science: Recent episodes in Atlantic Canada. Department of Biology, St. Francis Xavier University, Antigonish, NS.

(2015, September). Science and religion: Reflections on a complex juxtaposition. Keynote address, McGill-CREOR Graduate Students' Conference, McGill University, Montreal, QC.

(2015, January). Shale gas: Science policy issues in Canadian context: The case of Nova Scotia. Balsillie School, University of Waterloo, ON.

(<https://www.balsillieschool.ca/event/shale-gas-science-policy-issues-canadian-context>)

CURRENT RESEARCH AND PUBLICATION PROJECTS

Research areas

Socio-ecological systems approaches to environmental impact assessment in Canada. A pan-Canadian mobilization of social sciences and humanities scholarship. <https://www.ualberta.ca/research/our-research/research-initiatives/advancing-environmental-impact-assessment> (SSHRC Partnership Development Grant in preparation for November 2019 submission)

Assessing impact: Science and governance of oil and gas development in Canada (SSHRC Synthesis Grant application, currently under review)

Evolutionary ethics and ecology and its origins in late 19th-century Germany biology

Isaac Barrow: scholar-priestly performance in mid 17th-century Cambridge University (monograph project)

Articles in progress

Whose "environmental benefit"? Hydrocarbon debates and Canada's TMX pipeline. In preparation as an invited contribution to a special Issue of *Science, Technology and Human Values*, guest edited by B. Turner and M. Wiber.

Much ado about a very great deal: Isaac Barrow's treatment of "space" in the *Lectiones mathematicae* (1665). In preparation for *Early Science and Medicine*.

"Net environmental benefit analysis": A new EIA tool in the Canadian context? In preparation for *Environmental Impact Assessment Review*.

Stewart, I., Desjardin, E., Paris, C., & Joye, S. Modelling ecosystems in oil spill response planning: the case of "net environmental benefit analysis." In preparation for *Frontiers in Ecology and Environment*