ISSTI

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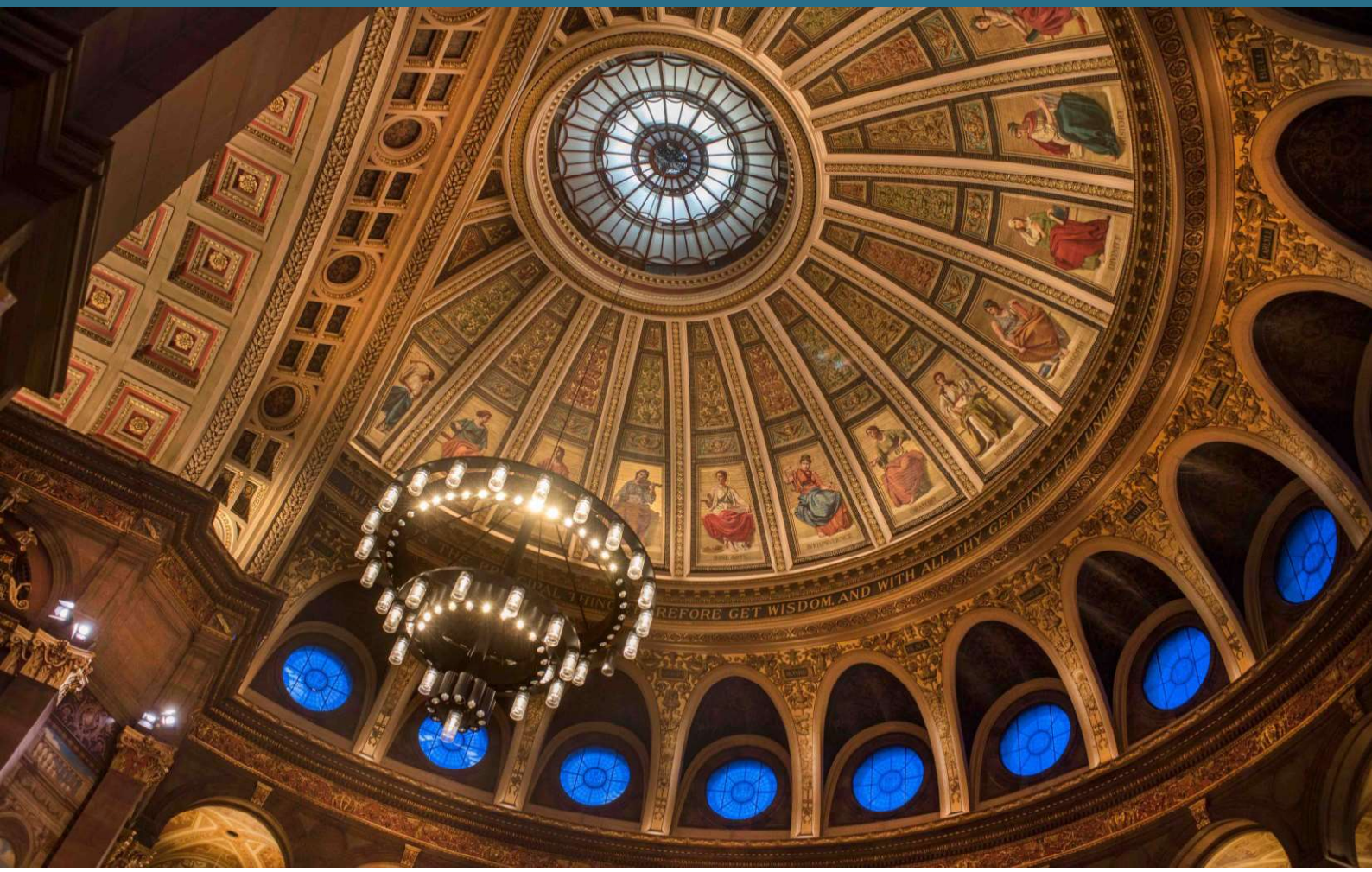

In this issue of the ISSTI Newsletter, we are delighted to share recent funding successes and honours within our community. We are thrilled to announce a series of upcoming events from 2 to 5 June 2025, with the AsSIST-UK Conference and annual ISSTI Retreat, revolving around a Gala to celebrate the 40th anniversary of Social Shaping of Technology. Our community continues to flourish, with early-career researchers making active contributions. Notably, this issue features 75 publications from the 2024 calendar year, underscoring the growing richness of our research output.

WANT MORE NEWS?
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Twitter accounts at:
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NSF Global Centre: Reliable and Scalable Biofoundries for Biomanufacturing and Global Bioeconomy

Rob Smith and Kyle Parker are both part of the recently awarded NSF Global Centre for Biofoundry Applications. The Centre will run for five years and connect biofoundries in the USA, UK, South Korea, Japan, and Finland to develop shared protocols and standards. In the UK, this initiative is a collaboration between the University of Edinburgh and Imperial College London. Rob will lead a Governance Workstream with Emma Frow at Arizona State University and collaborators in each participating country, including Koichi Mikami. Together, they will map ethical and social issues associated with automating synthetic biology, identify governance needs, and embark on experimental governance activities to embed new practices in and around these facilities. Find more information about this award on the NSF website: https://www.nsf.gov/news/nsf-international-partners-invest-82m-six-2024-global.

ARIA Funding for Investigating Clinician Perspectives on Precision Neurotechnologies

Martyn Pickersgill has secured new funding from the pioneering Advance Research and Innovation Agency programme on 'Precision Neurotechnologies'. Titled *'Neurology Navigates Neurotech (3N): Understanding the Experiences and Expectations of Neurology Clinicians in relation to the Promise of Precision Neurotechnology'*, Martyn's project will run for two and a half years. The 3N project will examine clinical experiences and expectations alongside the broader landscape and sociological implications of precision neurotechnology. In doing so, it will deliver actionable insights to shape the development and, ultimately, the integration of cutting-edge technologies into healthcare. By aligning innovation with clinical experiences and aspirations, developers can create technologies that resonate with healthcare professionals and effectively meet patient needs.

Seed Funding for Assessing 'Chamberfakes'

Morgan Currie and Ben Collier have received a Seed Funding award from the University of Edinburgh Generative AI Lab for continuing their research on 'Chamberfakes'. Commissioned by the Scottish Parliament, this research evaluates the potential threats, risks, and mitigations related to parliamentary business posed by novel generative AI technologies, with a particular focus on the threat that deepfaked videos—referred to as 'chamberfakes'—pose to the integrity of the Parliament video livestream and archived recordings of parliamentary business. The published research findings are available at: https://www.sccjr.ac.uk/wp-content/uploads/2024/12/Deepfake-Parliamentary-Video-FINAL.pdf.

Paper and Book Awards:

- **The Grounded Theory Methodology Special Interest Group Best Paper Award is awarded to Neil Pollock** and his co-author for: Hafezieh, N., & Pollock, N. (2023). Digital consumers and the new 'search'practices of born digital organisations. *Information and Organization*, *33*(4), 100489.
- **The 2024 Edelstein Prize (Society for the History of Technology) and the 2024 Bentley Prize (Association for World History) are awarded to Francesca Bray** and her co-authors for: Bray, F., Hahn, B., Lourdusamy, J. B., & Saraiva, T. (2023). *Moving crops and the scales of history*. Yale University Press.

Associated Event: In December 2024, the Food Research in Edinburgh (FRIED) network held a seminar where Francesca Bray discussed this book. She introduced the concept of 'cropscape'—the assemblage of people, places, creatures, technologies, ideas, and other elements that forms around a crop and changes as it moves through time and space—and shared details from several of the case studies in the book, such as "the elephants' picnic" and the history of millet in China.

Upcoming Events Announcement:

ISSTI 2025 Retreat – 4-5 June 2025 – A Date for Your Diaries

The 2025 ISSTI retreat coincides with the 40th anniversary of the publication of Donald MacKenzie and Judy Wajcman's ground-breaking collection *The Social Shaping of Technology*. We will kick off the retreat with a gala event from 10 am to 1 pm on 4 June, featuring keynote presentations from Donald MacKenzie, Judy Wajcman, Knut H. Sørensen, and Sampsa Hyysalo. This will lead into a diverse programme of presentations and panel discussions with contributions from the many strands of scholarship in science, technology, and innovation studies across the University. Put the date in your diary. More details will follow in due course.

AsSIST-UK 2025 Conference – 2-3 June 2025

Edinburgh is also hosting the biennial conference of the UK Association for Studies of Innovation, Science and Technology. The call for abstracts for papers and panels will close on 28 February 2025.

See the joint poster with the registration link on the next page.

Inaugural lecture – Professor Niki Vermeulen – 5 March 2025

Professor Niki Vermeulen will deliver her inaugural lecture, *"A Manifesto for Collaboration"*, from 5:15 pm to 6:30 pm on 5th March 2025 at the Anatomy Lecture Theatre, followed by a reception in CMB Foyer.

This inaugural lecture will explore the nature of research collaboration, showcasing its diverse forms—from informal interactions to institutionalised structures such as research projects, universities, and disciplinary associations. Drawing from insights in Science and Technology Studies (STS), which has examined the social organisation of research since the 1960s, the lecture will highlight how research is not only a means of producing knowledge but also a social activity. Key themes include the role of time and space in collaboration, the importance of crossing disciplinary and generational boundaries, and the challenges of achieving diversity and equity in collaborative work. The lecture will argue that studying collaboration offers valuable lessons for improving research cultures and policies, and it will call for greater recognition of collaboration's role in shaping academic practices, policies, and futures.

For registration and further details, visit: https://edin.ac/40tHBkG.

Workshop: Doing AI Differently
Integrating Humanities into the Core of AI Development

The Doing AI Differently initiative aims to challenge traditional AI development approaches by integrating humanities perspectives into the core of technical innovation. Led by The Alan Turing Institute, the University of Edinburgh, and the UK's Arts & Humanities Research Council (AHRC-UKRI), the initiative fosters interdisciplinary collaboration with partner institutions in the UK and North America. It seeks to advance humanities-driven contributions in AI design, focusing on three core challenges: developing interpretive technologies, exploring alternative AI architectures, and advancing human–AI ensembles. The initiative will also launch an **AHRC-UKRI International Science Partnerships Fund (ISPF) funding call** in April 2025, supporting UK–US–Canada collaborations on humanities-driven AI research. A workshop will convene an international community to advance this novel research theme.

- 🗓️ Main Day: Thursday 13 March 2025, 10am-4pm
- 🗓️ Working Group Sessions: Friday 14 March 2025, 10am-4pm
- 📍 Location: The Royal Academy of Engineering, London SW1
- 🎓 Aligned Event: The Alan Turing Institute's major annual conference (AIUK) on 17-18 March

For more information and inquiries, visit: https://www.newreal.cc/doingaidifferently.

Reflexions

AsSIST-UK 2025 Conference & 2025 ISSTI Retreat

Celebrating the 40th anniversary of Social Shaping of Technology with Donald MacKenzie, Judy Wajcman, Knut H Sørensen, Sampsa Hyysalo

Edinburgh, 2-5 June 2025

Mon | Tue | Wed | Thurs

AsSIST-UK 2025 Conference

with keynotes from **Andy Stirling, Noortke Marres and James Wilsdon**

Social Shaping of Technology Gala

2025 ISSTI Retreat

Call for papers
(Registration will open on 3 March)

RSVP for Gala
(Free to attend)

- **Rhodri Leng** participated in the Metascience Sandpit event organised by UKRI and DSIT. The four-day interactive event took place over two weeks, with in-person sessions at the UKRI offices in Swindon on 5 and 6 February 2025, followed by remote sessions on 11 and 13 February 2025. The sandpit aimed to develop novel projects addressing multifaceted metascience questions related to R&D funding and policymaking. Participation was awarded through a competitive application process. The event fostered opportunities for collaboration in science and technology funding and policy work. Up to £1 million (80% FEC) was expected to support research projects from the sandpit.
- **Martyn Pickersgill** co-organised two workshops with collaborators from the US and Australia over January and February 2025. The first, held in January in Houston, was titled *Entanglements of Science and Care within Health Research*, co-organised with Miranda Waggoner (Rice University) and supported by the Edinburgh–Rice Strategic Collaboration Fund. The second, held in February in Edinburgh, was titled *Emotions in the Age of AI*, co-organised with Jacinthe Flore (University of Melbourne) and supported by a Dyason Fellowship and Wellcome.
- **David Ingram and Eugénia Rodrigues** hosted two independent documentary filmmakers, Marie-Pierre Leroux and Perry Walker, during the first week of November 2024. They discussed and contributed to a film about the Wyre Forest Study Group, a citizen science research group with which DI and ER are studying and collaborating. The film explores the group's role in research on plant diseases and the significance of this work for biodiversity conservation and global food security. The visit included trips to the Herbarium at the Royal Botanic Garden Edinburgh, as well as extensive filming and in-depth interviews. David Ingram and Stephen Wildman also contributed to a seminar on 22 April 2024 as part of the STIS Seminar Series, titled *John Ruskin's Flora of Chamonix*, to launch their new 2023 two-volume book of the same name in Scotland.

Dialogues on Data: Who is Data-Driven Healthcare For?

The DARE team (Cath Montgomery, Abby King, Nicola Sugden, and Max Perry), in association with the Centre for Biomedicine, Self and Society, hosted '*Dialogues on Data: Who is Data-Driven Healthcare For?*' on 31 January 2025. The event brought together academics, policymakers, third-sector organisations, and healthcare practitioners to explore the future of data-led healthcare over the next 30 years and the challenges of current on-the-ground realities. Julie Anne Jacko (College of Medicine and Veterinary Medicine) gave the opening remarks. Guest speakers were Jonathan Cameron (Scottish Government) and Annemarie Docherty (Wellcome and NHS Critical Care).

International Symposium 'Caring Machines'

Giulia De Togni organised the international symposium '*Caring Machines*' at the Bayes Centre, Edinburgh, on 2 December 2024. Fully funded by the Wellcome Trust as part of her Fellowship, the event brought together speakers from the UK, Japan, South Korea, and Norway to discuss how to foster responsible research and innovation (RRI) in AI and robotics for health and care. Topics included AI ethics, research integrity, interdisciplinarity, inclusivity, public engagement, co-production, and novel methodologies. The symposium concluded with a screening of the South Korean ethnographic documentary '*Hug Me Tight*', accompanied by insights from its creators, Heesun Shin and Chihyung Jeon.

EASST Council Appointment

Iñaki Goñi was elected as a Council Member of the European Association for the Study of Science and Technology (EASST) for the 2025–2028 term. Together with Francis Lee, he has volunteered to act as a liaison for discussions on collaboration between EASST and national STS associations, aiming to strengthen links and explore joint activities.

Iñaki is a PhD candidate at STIS. His research focuses on technology and democratic theory, exploring how citizens engage with technology and how technologies shape participation. Before pursuing his PhD, he worked as a lecturer and researcher at the Universidad Católica de Chile.

STIS PhDs Awarded in 2024

- **James Besse –** *"Implementation of the EU Settlement Scheme: Interoperability, Intermediaries, and Workarounds"* (Supervisor: Morgan Currie)
- **Sophie Stone –** *"Placing the Human in Mammalian Synthetic Biology"* (Supervisor: Jane Calvert)
- **Alli Spring –** *"Great Expectations: A Study of Technology, Peace, and Education in Sri Lanka"* (Supervisor: Morgan Currie)

Recent Viva Passes

- **Sofie Jaeger –** *"'No One Will Protect What They Don't Care About': Exploring Conflict and Collaboration in Public Climate Engagement"* (Supervisors: Steven Yearley, Eugénia Rodrigues)

  Sofie passed her viva in December 2024. Her study explores the role of conflict in public climate engagement, an often-overlooked aspect despite rising citizen involvement over the past 15 years. She contrasts a Danish regional climate assembly with a Scottish government-sponsored place-based climate project, identifying two dimensions of conflict: external (disputes over engagement formats, such as gaps between participant expectations and experiences) and internal (disagreements around the content of participatory exercises). By analysing both cases, she develops a typology of conflict approaches within these dimensions. Against the backdrop of growing interest in citizen-centred climate transitions, her research highlights how consciously engaging with conflict can enhance citizens' agency and autonomy in participatory processes.

This is the Newsletter of the Institute for the Study of Science, Technology and Innovation (ISSTI). This interdisciplinary network, founded in 2001 by Robin Williams, brings together colleagues from across the University of Edinburgh studying science, technology and innovation, and is hosted by the Science, Technology and Innovation Studies (STIS) Subject Group. Find us on our website: www.issti.ed.ac.uk.

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ISSTI Newsletter Editorial Team: Huayu Xin (Editing and Layout); Robin Williams and Matjaz Vidmar (Overall Editorial Supervision).

Our 2024 Publications

We take the opportunity in the first ISSTI Newsletter of the calendar year to publish a list of publications by members of Edinburgh's community of scholars in Science, Technology and Innovation Studies. This list for 2024 – which is by no means comprehensive – has 75 records – up from 55 in 2023, reflecting the growth and dynamism of our research community.

Banda, G., Mackintosh, M., Karimi Njeru, M., Songora Makene, F., & Srinivas, S. (Eds.). (2024). Cancer care in pandemic times: Building inclusive local health security in Africa and India. In *International political economy series* (Part F2092, pp. 215–239). Palgrave Macmillan.

Bandola-Gill, J., Andersen, N. A., Leng, R., Pattyn, V., & Smith, K. E. (2024). A matter of culture? Conceptualizing and investigating "Evidence Cultures" within research on evidence-informed policymaking. *Policy and Society*, *43*(4), 397-413.

Bennett, H., Currie, M., & Podoletz, L. (2024). Universal Credit: administrative burdens of automated welfare. *Journal of Social Policy*, 1-19.

Bray, F. (2024). Wet rice in East Asia: A long revolution. In J. Whayne (Ed.), *The Oxford handbook of agricultural history* (pp. 477–498). Oxford University Press.

Bray, F., & Kobiljski, A. (2024). Technology and modernization in East Asia: What dragons can teach us about global history. In G. Carnino, L. Hilaire-Pérez, & J. Lamy (Eds.), *Global history of techniques* (pp. 99–116). Brepols.

Calvert, J. (2024). *A Place for Science and Technology Studies: Observation, Intervention, and Collaboration*. MIT Press.

Collier, B. (2024). *Tor: From the Dark Web to the Future of Privacy*. MIT Press.

Collier, B., & Clayton, R. (2024). Peer(ing) pressure: Achieving social action at scale in the internet infrastructure. *Workshop on the Economics of Information Security*.

Collier, B., & Currie, M. (2024). Chamberfakes: Assessing the threats posed by generative AI technologies to parliamentary democracy in Scotland. *The Scottish Centre for Crime and Justice Research*. https://www.sccjr.ac.uk/publication/chamberfakes-assessing-the-threats-scotland/

Collier, B., Stewart, J., Horgan, S., Thomas, D. R., & Wilson, L. (2024). Influence government, platform power and the patchwork profile: Exploring the appropriation of targeted advertising infrastructures for government behaviour change campaigns. *First Monday*, *29*(2).

Coombs, N., MacDonogh, H., & Rodrigues, E. (2024). Scoping Impact: An International Study of Contemporary Definitions and Conceptualisations of Impact by Funders of Social Science Research.

Cortázar, C., Goñi, J., & others. (2024). Are professional skills learnable? Beliefs and expectations among computing graduates. *ACM Transactions on Computing Education*.

Cresswell, K., & Williams, R. (2024). Essential strategic principles for planning and developing digitally enabled interventions in health and care settings. *BMC Health Services Research*, *24*(1), 1399.

Cresswell, K., Anderson, S., Elizondo, A. M., & Williams, R. (2024). Opportunities and challenges of promoting integrated care through digitalisation–learning lessons from large-scale national programmes in England. *Health Policy and Technology*, 100838.

Cresswell, K., de Keizer, N., Magrabi, F., Williams, R., Rigby, M., Prgomet, M., ... & Ammenwerth, E. (2024). Evaluating Artificial Intelligence in Clinical Settings—Let Us Not Reinvent the Wheel. *Journal of medical Internet research*, *26*, e46407.

Cresswell, K., Hinder, S., Sheikh, A., Watson, N., Price, D., Heed, A., ... & Williams, R. (2024). Complex Hospital-Based Electronic Prescribing–Based Intervention to Support Antimicrobial Stewardship: Qualitative Study. *JMIR formative research*, *8*, e54458.

Cresswell, K., Sullivan, C., Theal, J., Mozaffar, H., & Williams, R. (2024). Concerted adoption as an emerging strategy for digital transformation of healthcare—lessons from Australia, Canada, and England. *Journal of the American Medical Informatics Association*, *31*(5), 1211-1215.

Currie, M., & Gorton, V. (2024). Data benefits: Attitudes and aspirations for social security data reuse in Scotland. *The University of Edinburgh*. http://dx.doi.org/10.7488/era/5412

De Togni, G. (2024). [Review of the book *Contemporary narratives of ageing, illness, care*, edited by S. Katsura & S. Falcus]. *Journal of Anthropology and Aging, 45*(2), 121–123.

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Díaz, M. F., & Goñi, J. I. (2024). What expertise, for what, and whose democratic politics? In G. Eyal & T. Medvetz (Eds.), *The Oxford handbook of expertise and democratic politics*. Oxford University Press.

Edwards, P. N., Beaulieu, A., & Borgman, C. L. (2024). Infrastructures. *Elgar Encyclopedia of Science and Technology Studies*, 328.

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Goldschmidt, P. (2024). A walk in Berlin. In J. Eschrich & E. Finn (Eds.), *Climate change almanac: Climate action almanac*. Center for Science and the Imagination at Arizona State University with MIT Press.

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Goldschmidt, P. (2024). *Night vision*. Broken Sleep Books.

Goldschmidt, P. (2024). *Schrödinger's wife (and other possibilities)*. Goldsmiths Press/Gold SF.

Goldschmidt, P. (2024). Unseen possibilities: On entanglement and the story of Schrödinger's wife. *The Glasgow Review of Books*. https://glasgowreviewofbooks.com/2024/10/17/unseen-possibilities-on-entanglement-the-story-of-schrodingers-wife/

Goñi, I., & Masetti Placci, M. (2024). Automation bias and procedural fairness: A short guide for the UK civil service. *BRAID*. https://zenodo.org/records/13132781

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Our 2024 Publications

Hartley, S., & Smith, R. D. (2024). Anticipatory stakeholder engagement provides insights for gene drive in invasive species through the case of gene drive grey squirrels. *Environmental Science & Policy*, *162*, 103939.

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Hemment, D., Vidmar, M., Koppel, K., & Earl, S. (2024). Open prototyping: The cocreation toolkit. *The New Real*, 1–42.

Hewer, R., & Collier, B. (2024). Hope in a paranoid place? Critique, utopianism and prefigurative policy reform. *Journal of Social Policy*, 1-16.

Hilliger, I., Goni, J., & Cortazar, C. (2024). Trends Affecting Curriculum Reform in Engineering Education: A Scoping Review. *International Journal of Engineering Education*, *40*(5), 1245-1261.

Horgan, S., Collier, B., Stewart, J., & Thomas, D. R. (2024). Influence policing: domestic digital influence campaigns and algorithmic strategic communications in UK law enforcement and homeland security. *The British Journal of Criminology*, azae063.

Ingram, D. S., & Wildman, S. (2024). John Ruskin's flora of Chamonix 1844: A botanical odyssey from Chamonix to Brantwood and beyond. *Transactions of the Cumberland & Westmorland Antiquarian & Archaeological Society*, Third Series, 24, 79–97.

Kannelønning, M. S., Grisot, M., & Williams, R. (2024). Towards experimental implementations: Moving emerging artificial intelligence technologies into real-world clinical settings. In P. Giardullo & F. Miele (Eds.), *Reframing algorithms: STS perspectives to healthcare automation* (pp. 147–172). Palgrave Macmillan.

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Leng, R. I., & Leng, G. (2024). A career in numbers: A citation network analysis of the work of RP Millar and his contribution to GnRH research. *Journal of Neuroendocrinology*, *36*(10), e13430.

Moncreiff, H., Bolton, R., & Winskel, M. (2024). Unpacking the strategy of an energy incumbent: A case study of a Dutch oil and gas company in transition. *Energy Research & Social Science*, *111*, 103490.

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Ndambo, M. K., Bunn, C., Pickersgill, M., Stewart, R. C., Crampin, A. C., Nyasulu, M., ... & Manda-Taylor, L. (2024). Can biosampling really be "non-invasive"? An examination of the socially invasive nature of physically non-invasive biosampling in urban and rural Malawi. *Global Bioethics*, *35*(1), 2398303.

Pickersgill, M. (2024). Re-engaging society: on the Darzi report and mental health in England. *The Lancet Psychiatry*, *11*(12), 961-962.

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Strouk, M., & Maisonobe, M. (2024). Field science and scientific collaboration in the Svalbard Archipelago: beyond science diplomacy. *Science and Public Policy*, scae012.

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