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Ashley Hall
Royal College of Art, UK

Rob Phillips
Royal College of Art

Delfina Fantini
Royal College of Art

Jonathan Chapman
Carnegie Mellon University

James Tooze
University of Brighton

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Editorial: Design dematerialisation: Opportunities through reduction

Ashley Hall^{a*}, Rob Philips^a, Delfina Fantini^a, Jonathan Chapman^b, James Tooze^c

^a Royal College of Art, UK

^b Carnegie Mellon University, USA

^c Brighton University, UK

*Corresponding author e-mail: ashley.hall@rca.ac.uk

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UN reports state that the 2020 pandemic caused little impact to ‘slow climate change’ as Covid-19 was woefully ‘inadequate at transforming our behaviour’. Given the societal and infrastructural stresses Covid has wrought, coupled with the cataclysmic inter-related ecological warnings, evidenced by a succession of devastating ‘once-in-a-thousand-year events’, the Post-Covid era constitutes a new paradigm, providing unique environmental and social challenges for designers to address.

While aspirations for a ‘green recovery’ from the pandemic are yet to materialise as suitably radical policy. Extractive industries and voracious supply chains continue to drive international ecological collapse. Design in all its guises pervasively intervenes materially, culturally, economically and ultimately ecologically. In order to course-correct from a path of ecological collapse, it is imperative that the practices of design are reimagined and overhauled so that designers are able to pursue prospective ecological endeavours (not solely solution driven methods).

Design Dematerialisation can be viewed from a degrowth perspective, as an act to remove material things from the world; a shift in focus from static, material things, to dynamic, living experiences. This is a massive pivot from two centuries of cultural and economic norms that encouraged the transformation of the natural world into human commodities and unwanted by-products back into the natural world as pollution. This one-directional mode of world-making can be characterised as a straight line, with social and environmental destruction built-in at either end.



Design Dematerialisation is a provocation, asking designers a series of fundamental and existential questions: What roles can designers take in recalibrating humanity's custody of the planet? What should the underlying principles of design be, given the scale, complexity and proximity of climate and ecological emergencies? What are the challenges of systems literacy and capabilities to handle such complexity?

Paradigm shifts may be necessary, moving from attempts to circularise economies through design to embracing and ameliorating inevitable futures. The track will be working beyond sustainability and looking at means (as design practitioners & researchers) to work within reductive practices. Conceptual explorations include ideas of: design dematerialisation, design subtraction, design reduction etc., and discover the gaps and overlaps in these approaches.

The track invites proposals on the topic of emerging ideas, roles, activities and responsibilities of design practitioners in a world that must 'positively reduce' impacts on the environments their interventions directly and indirectly affect. A subtractive future is not really concerned with finding efficiencies of current norms but with the strategies, experiences, interactions, shifts, behaviour changes, re-connections and new economies of degrowth. This track seeks to interrogate the interconnection of philosophical, moral, and existential arguments with the concrete and tangible realities of taking and coordinating action in, and through the field and practices of design.

Our contributors span a range of approaches to researching design dematerialisation with two from applied and industrial perspectives including product lifecycles and contamination while two more explore pedagogic insights from a new integrated packaging course through to theoretical insights into undisciplined stewardship towards environmental pedagogy. Alternative hedonism brings new theoretical perspectives on design dematerialisation.

Maginer and Mugge explore consumer perceptions of product lifetime extension strategy and make contributions towards understanding the level of doubt inherent in current consumer attitudes towards strategies for product lifetime extension, while Wallner, Snell, Maginer and Mugge investigate the perception of contamination barriers preventing the purchase of personal medical products and contributes awareness to tackling contamination concerns in a circular economy.

Research from Chile led by Huerta, Cortés and Melo explores extended producer liability legislation and contributes an analysis of diverse student strategies for reducing packaging while Galdon and Hall propose undisciplined stewardship via the notion of deep products making a theory contribution to future design led pedagogy.

Harkness explores post-growth theory theorising around patterns of work and consumption bringing forth a contribution for understanding alternative hedonism and earth practices and their value in underpinning design dematerialisation.

Stitched throughout all of our contributions are contrasting and collaborating perspectives on design dematerialisation highlighting the opportunities, gaps and challenges facing future design theory and practices via applied products, education and theorising. We hope the

sharing and debate around this research begins to set out new terrain, inform direction and ultimately reshape a future for design that abandons the assumption of addition as its core *modus operandi*.

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About the Authors:

Prof. Ashley Hall: Ashley is Professor of Design Innovation at the Royal College of Art where he leads postgraduate research for the design

school and the MRes in Healthcare Design. Ashley researches innovation methods, experimental design, design for safety, design pedagogy and design resilience.

Dr Rob Phillips is a senior tutor in Design Products at the Royal College of Art. His research explores citizen science and design sustainability through his projects as PI including Citizen Naturewatch and Ecological citizens, and through his new book for Thames and Hudson; *Future-Kind: design for and by the people*.

Dr Delfina Fantini is a senior tutor in Innovation Design Engineering at the Royal College of Art. Her research investigates the socio-ecological and political implications of technological 'smartness' when applied to human bodies, homes and cities characterised as the 'Algorithmic Paradigm'.

Prof Jonathan Chapman is Director of Doctoral Studies in the School of Design at Carnegie Mellon University, USA. His research tackles our throwaway society by developing design strategies for longer-lasting products, materials and user experiences – an approach he calls, emotionally durable design.

James Tooze is a Principal Lecturer in the School of Architecture, Technology & Engineering, University of Brighton where he leads the Product Design BSc/BA. His research focusses on the intersection of Open Design, Distributed Manufacturing and Sustainable Futures.