The Antiquaries Journal
Published for the Society of Antiquaries of London

Editors
Kate Owen, The Society of Antiquaries of London, United Kingdom
Christopher Catling, The Society of Antiquaries of London, United Kingdom

The Antiquaries Journal aims to reflect the multi-disciplinary nature of the study of material culture, publishing a balanced mix of papers from all periods, from prehistory to the recent past. The journal seeks papers that address research questions from a variety of perspectives, combining, for example, historical, art historical, architectural, linguistic, archaeological and scientific data. It will be essential reading for archaeologists, architectural and art historians and material culture specialists, as well as those involved in conservation in its broadest application.

Price information
is available at: http://journals.cambridge.org/ant

Free email alerts
Keep up-to-date with new material – sign up at
http://journals.cambridge.org/ant-alerts

For free online content visit: http://journals.cambridge.org/ant

To subscribe contact
Customer Services
in Cambridge:
Phone +44 (0)1223 326070
Fax +44 (0)1223 325150
Email journals@cambridge.org

in New York:
Phone +1 (845) 353 7500
Fax +1 (845) 353 4141
Email subscriptions_newyork@cambridge.org

Antiquaries Journal
is available online at:
http://journals.cambridge.org/ant

Price information
is available at:
http://journals.cambridge.org/ant

Free email alerts
Keep up-to-date with new material – sign up at
http://journals.cambridge.org/ant-alerts

For free online content visit:
http://journals.cambridge.org/ant

Antiquaries Journal
is available online at:
http://journals.cambridge.org/ant

Price information
is available at:
http://journals.cambridge.org/ant

Free email alerts
Keep up-to-date with new material – sign up at
http://journals.cambridge.org/ant-alerts

For free online content visit:
http://journals.cambridge.org/ant
arq aims to publish significant, original research and design offering new insights into architecture.

Contributions are welcomed from practitioners, academics and students. Submissions may cover either the totality of design, as in critiques or evaluations of buildings; or significant sub-areas such as history, theory, construction, structures, environmental design, materials, digital and practice.

arq is independent. It has no connection with any institution or organisation.

contents

perspective 5 Building Science: Synthetic Biology and emerging technologies in architectural research Martyn Dade-Robertson

design 10 Cities as biological computers Claudia Pasquero and Marco Poletto

20 (Experimenting with) Living Architecture: a practice perspective Emma Flynn

theory 29 Design scrying: an alternative aesthetics for synthetic biology Rachel Armstrong

39 The unit of survival Andrew Ballantyne

45 Machines for living: connections and contrasts between designed architecture and the development of BeingForms Jamie Davies

materials 51 Bioreceptive design: a novel approach to bio-digital materiality Marcos Cruz and Richard Beckett

practice 65 The laboratory life of a designer at the intersection with algal biotechnology Marin Sawa

73 SolarLeaf: The world’s first bioactive façade Jan Wurm and Martin Pauli

arq review 81 Architecture’s Pretexts: Spaces of Translation Reviewed by Joseph Clarke

insight 85 ‘Architecture and Macaroni’: Digesting knowledge through ingesting food Lisa Hsieh

arq aims to publish significant, original research and design offering new insights into architecture.

Contributions are welcomed from practitioners, academics and students. Submissions may cover either the totality of design, as in critiques or evaluations of buildings; or significant sub-areas such as history, theory, construction, structures, environmental design, materials, digital and practice.