situated knowledges shifting theory the construction of site







Editor-in-Chief Adam Sharr

E. adam.sharr@ncl.ac.uk

Editor-at-Large

Richard Weston

E. richard@richardwestonstudio.com

Editors

Samuel Austin

E. samuel.austin@ncl.ac.uk

Martin Beattie

E. martin.beattie@ncl.ac.uk

Neil Burford

E. neil.burford@ncl.ac.uk

Rachel Cruise

E. r.b.cruise@lboro.ac.uk

Graham Farmer

E. graham.farmer@ncl.ac.uk

Zevnep Kezer

E. zeynep.kezer@ncl.ac.uk

Katie Llovd Thomas

E. katie.lloyd-thomas@ncl.ac.uk

Juliet Odgers

E. juliet.odgers@ncl.ac.uk

Stephen Parnell

E. stephen.parnell@ncl.ac.uk

Ruth Lang

Reviews + Insight

E. r.lang2@ncl.ac.uk

Edward Wainwright

E. edward.wainwright@ncl.ac.uk

Alex Blanchard E. arq@ncl.ac.uk

Art Editor + Design

Editorial Board

Angela Ashton

E. design@angelaashton.co.uk

Simon Allford Allford Hall Monaghan Morris, UK

Andrew Ballantyne Newcastle University, UK Mark Burry Swinburne University, Australia

Carlos Eduardo Comas Universidade Federal do Rio Grande do Sul, Brazil

Richard Coyne The University of Edinburgh, UK

Peggy Deamer Yale University, USA

Susannah Hagan University of Westminster, UK

Francine Houben Mecannoo, Holland

Susanne Hofmann Die Baupiloten, TU Berlin, Germany

Louisa Hutton Sauerbruch Hutton, Germany

Mari Hvattum The Oslo School of Architecture and Design, Norway

Timothy W. Hyde MIT, USA

Momoyo Kaijima Atelier Bow-Wow, Japan

Silke Kapp Universidade Federal de Minas Gerais, Brazil

Ulrika Karlsson KTH Sweden

David Leatherbarrow University of Pennsylvania, USA Lesley Lokko University of Johannesburg, South Africa

Mary McLeod University of Columbia, USA

Steven A. Moore The University of Texas at Austin, USA Michael Ostwald University of New South Wales, Australia

Simo Paavilinen Aalto University, Finland

Jane Rendell Bartlett School of Architecture, UCL, UK

Daniel Rosbottom TU Delft, Holland

Andreas Rumpfhuber Expanded Design, Austria Simon Sadler University of California, Davis, USA

Flora Samuel University of Reading, UK

Jonathan Sergison Sergison Bates Architects, UK Despina Stratigakos University at Buffalo, USA

Koen Steemers University of Cambridge, UK John Tuomey O'Donnell + Tuomey, Ireland

Sarah Wigglesworth Sarah Wigglesworth Architects, UK Jianfei Zhu The University of Melbourne, Australia

arq: Architectural Research Quarterly (issn 1359-1355) is published four times a year in March, June, September and December. Four parts form a volume. The subscription price which includes print and electronic access (but excluding vat) of volume 23 is £345.00 (US \$579.00 in USA, Canada and Mexico) for institutions; £59.00 (US \$91.00 in USA, Canada and Mexico) for individuals and £42.00 (US \$71.00 in USA, Canada and Mexico) for students, which includes print only, ordering direct from the publishers and certifying that the journal is for their personal use. Single parts are £99.00 net (US \$160.00 in USA, Canada and Mexico) plus postage. EU subscribers (outside the UK) who are not registered for vat should add vat at their $country \hbox{'s rate.} \ vat \hbox{ $registered members should}$ provide their vat registration number. Japanese prices for institutions (including ASP delivery) are available from Kinokuniya Company Ltd, P.O. Box 55, Chitose, Tokyo 156, Japan. Orders which must be accompanied by payment, may be sent to a bookseller, subscription agent or direct to the publisher: Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge CB2 8BS, UK; or in the USA, Canada and Mexico: Cambridge University Press, Journals Fulfillment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA. Copies of the journal for subscribers in the USA, Canada and Mexico are sent by air to New York to arrive with minimum delay.

Copying

The journal is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, USA, Organizations in the USA who are also registered with C.C.C may therefore copy material (beyond the limits permitted by sections 107 and 108 of U.S. Copyright law) subject to payment to C.C.C. of the per-copy fee of \$16. This consent does not extend to multiple copying for promotional or commercial purposes. Code 1359-1355/2019/\$16.

ISI Tear Sheet Service, 3501 Market Street, Philadelphia, PA 19104, USA, is authorized to $supply single \ copies \ of \ separate \ articles \ for$ private use only.

Organizations authorized by the Copyright Licensing Agency may also copy material subject to the usual conditions.

For all other use, permission should be sought from Cambridge or from the American Branch of Cambridge University Press.

Information on **arq**: Architectural Research Quarterly and all other Cambridge journals can be accessed via http://www.journals.cambridge.org/

This journal issue has been printed on FSC-certified paper and cover board. FSC is an independent, non-governmental, not-for-profit organization established to promote the responsible management of the world's forests. Please see www.fsc.org for information.

© Cambridge University Press 2019

Printed in the UK by Bell & Bain Ltd, Glasgow

contents

COVER Through the Bang	leader	299	Situated knowledges in architecture
Bang House and Measure House projects, Matthew Butcher explores an architecture of softness to counteract disenchantment from our experience of the material and physical world. See pp. 310–330.	report	300	Genres of 'Architectural Theory Now?' Ali AlYousefi
		305	Theory and histories Jane McAllister
	design	310	Bang Bang House and Measure House: poetic and performative architectures of softness Matthew Butcher explores an architecture of softness to counteract increasing conditions of disembodied and disenchantment from our experience and understanding of the material and physical world.
	history	331	Settings for collective renewal: Alison and Peter Smithson's Christmas exhibitions Ana Ábalos-Ramos examines a series of four Christmasthemed exhibitions developed by the Smithsons over 1976-81, that offered an opportunity to explore a renewed 'art of inhabitation'.
		349	From earth to heaven: the origin and development of zaojing in early China Jing Xie explores how zaojing or lantern ceilings, formally derived from water wells, were seen both as social signifiers of rank and 'magical' fire protection devices.
	education	365	Making sites that matter: choreographing situated knowing in architectural analysis and design Oren Lieberman draws on situated knowledges, agential realism, and matters of concern and care to develop the notion of <i>situatedness</i> , as opposed to context, for architectural education and practice.
	review	377	Architects: Portraits of a Practice Prue Chiles
	letterfrom	381	Yugoslavia: Brutalism and sophistication Vladimir Kulić
	subscribe		A subscription form, which may be copied, can be found on page 298 of this issue

architectural research quarterly

Subscribe now for 2019

arq

Innovative in conception, unique in breadth and generously illustrated, this pace-setting quarterly publication from Cambridge University Press bridges, on a global scale, the realms of architectural practice and research. **arq** includes extensive peer-reviewed sections on design, history, theory, digital, environmental design, education, and practice - as well as landscape, materials and urbanism. These are supplemented with reports, reviews and perspectives. Each issue opens with a leader and usually closes with insight, or a letter from a place of interest. In its history, arq has published work from all over the world: from Chile to The Netherlands and from Japan to South Africa - with a strong representation from the United Kingdom, United States, China and Australia. arq, like architecture itself, is all-embracing and written by and for both academics and practitioners.

£345/\$579 institutions print and electronic £42/\$71 students print only £59/\$91 individuals print only £U residents only. VAT may be payable at your local rate if not registered. Our VAT registration number: GB 214 1416 14 If registered, your VAT registration no: Total subscription payment £/\$ EU residents only, if not registered add VAT at appropriate rate Canadian residents, add 7% GST \$ Total £/\$ Name	irq : architectural research quarterly, v	olume 23, 2019
E59/\$91 individuals print only EU residents only. VAT may be payable at your local rate if not registered. Our VAT registration number: GB 214 1416 14 If registered, your VAT registration no: Total subscription payment £/\$ EU residents only, if not registered add VAT at appropriate rate Canadian residents, add 7% GST \$ Total £/\$ Name Address Payment enclosed Cheque in sterling or US dollars (payable to Cambridge University Press (delete where applicable). Card no Expiry date Signature Photocopy this page and send your order to: Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge, CB2 8BS, UK T +44 (0)1223 326070 E journals@cambridge.org or in USA, Canada and Mexico send to: Cambridge University Press, Journals Fulfillment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA T (914) 937 9600	£345/\$579 institutions print and ele	ctronic
EU residents only. VAT may be payable at your local rate if not registered. Our VAT registration number: GB 214 1416 14 If registered, your VAT registration no: Total subscription payment £/\$ EU residents only, if not registered add VAT at appropriate rate Canadian residents, add 7% GST \$ Total £/\$ Name Address Payment enclosed Cheque in sterling or US dollars (payable to Cambridge University Press (delete where applicable, Card no Expiry date Signature Photocopy this page and send your order to: Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge, CB2 8BS, UK T +44 (0)1223 326070 E journals@cambridge.org or in USA, Canada and Mexico send to: Cambridge University Press, Journals Fulfillment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA T (914) 937 9600	£42/\$71 students print only	
local rate if not registered. Our var registration number: GB 214 1416 14 If registered, your var registration no: Total subscription payment £/\$ EUresidents only, if not registered add var at appropriate rate Canadian residents, add 7% GST \$ Total £/\$ Name Address Credit Card – VISA MasterCard American Express (delete where applicable, Card no Expiry date Signature Photocopy this page and send your order to: Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge, CB2 8BS, UK T +44 (0)1223 326070 E journals@cambridge.org or in USA, Canada and Mexico send to: Cambridge University Press, Journals Fulfillment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA T (914) 937 9600	£59/\$91 individuals print only	
If registered, your VAT registration no: Total subscription payment £/\$ EUresidents only, if not registered add VAT at appropriate rate Canadian residents, add 7% GST \$ Total £/\$ Name Address Credit Card – VISA MasterCard American Express (delete where applicable, Card no Expiry date Signature Photocopy this page and send your order to: Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge, CB2 8BS, UK T +44 (0)1223 326070 E journals@cambridge.org or in USA, Canada and Mexico send to: Cambridge University Press, Journals Fulfillment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA T (914) 937 9600		e at your
Total subscription payment £/\$ EU residents only, if not registered add vat at appropriate rate Canadian residents, add 7% GST \$ Total £/\$ Name Address Payment enclosed Cheque in sterling or US dollars (payable to Cambridge University Press (delete where applicable) Card no Expiry date Signature Photocopy this page and send your order to: Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge, CB2 8BS, UK T +44 (0)1223 326070 E journals@cambridge.org or in USA, Canada and Mexico send to: Cambridge University Press, Journals Fulfillment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA T (914) 937 9600	Our VAT registration number: GB 214	1416 14
EU residents only, if not registered add vat at appropriate rate Canadian residents, add 7% GST \$ Total £/\$ Name Address Address Credit Card – VISA MasterCard American Express (delete where applicable) Card no Expiry date Signature Photocopy this page and send your order to: Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge, CB2 8BS, UK T +44 (0)1223 326070 E journals@cambridge.org or in USA, Canada and Mexico send to: Cambridge University Press, Journals Fulfillment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA T (914) 937 9600	If registered, your VAT registration n	0:
add vat at appropriate rate L Canadian residents, add 7% GST \$ Total £/\$ Name	Total subscription payment £	/\$
Name	EU residents only, if not registered £ add var at appropriate rate	
Payment enclosed Cheque in sterling or US dollars (payable to Cambridge University Press Credit Card – VISA MasterCard American Express (delete where applicable) Card no Expiry date Signature Photocopy this page and send your order to: Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge, CB2 8BS, UK T +44 (0)1223 326070 E journals@cambridge.org or in USA, Canada and Mexico send to: Cambridge University Press, Journals Fulfillment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA T (914) 937 9600	Canadian residents, add 7% GST \$	
Address	Total £/\$	
Payment enclosed Cheque in sterling or US dollars (payable to Cambridge University Press Credit Card – VISA MasterCard American Express (delete where applicable, Card no	Name	
Cheque in sterling or US dollars (payable to Cambridge University Press Credit Card – VISA MasterCard American Express (delete where applicable) Card no Expiry date Signature Photocopy this page and send your order to: Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge, CB2 8BS, UK T +44 (0)1223 326070 E journals@cambridge.org or in USA, Canada and Mexico send to: Cambridge University Press, Journals Fulfillment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA T (914) 937 9600	Address	
Credit Card – VISA MasterCard American Express (delete where applicable) Card no Expiry date Signature Photocopy this page and send your order to: Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge, CB2 8BS, UK T +44 (0)1223 326070 E journals@cambridge.org or in USA, Canada and Mexico send to: Cambridge University Press, Journals Fulfillment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA T (914) 937 9600	_ ′	
Credit Card – VISA MasterCard American Express (delete where applicable) Card no Expiry date Signature Photocopy this page and send your order to: Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge, CB2 8BS, UK T +44 (0)1223 326070 E journals@cambridge.org or in USA, Canada and Mexico send to: Cambridge University Press, Journals Fulfillment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA T (914) 937 9600	Payment enclosed	
Card no	Cheque in sterling or US dollars (payable to Cambrid	ge University Press)
Expiry date		
Signature	Card no	
Photocopy this page and send your order to: Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge, CB2 8BS, UK T +44 (0)1223 326070 E journals@cambridge.org or in USA, Canada and Mexico send to: Cambridge University Press, Journals Fulfillment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA T (914) 937 9600	Expiry date	
Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge, CB2 8BS, UK T +44 (0)1223 326070 E journals@cambridge.org or in USA, Canada and Mexico send to: Cambridge University Press, Journals Fulfillment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA T (914) 937 9600	Signature	
Cambridge University Press, Journals Fulfillment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA T (914) 937 9600	Cambridge University Press, Journals Fulfillment Department, UP Shaftesbury Road, Cambridge, CB2 & T +44 (0)1223 326070	PH,
arq 23.2	Cambridge University Press, Journals Fulfillment Department, 1 Li Floor 20, New York, NY 10006, USA T (914) 937 9600	