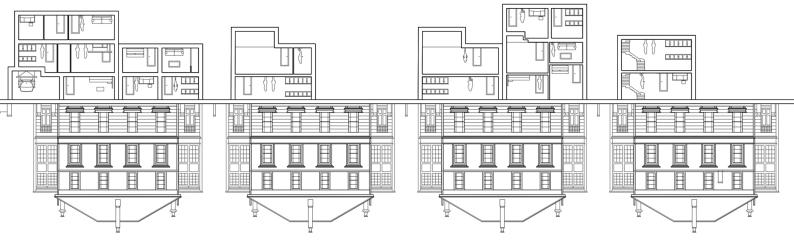
theatre, museum, basement, camp expanding typological research <u>subterranean geograp</u>hies







https://doi.org/10.1017/S1359135519000435 Published online by Cambridge University Press

## агс

Editor-in-Chief	Adam Sharr E. adam.sharr@ncl.ac.uk	
Editor-at-Large	<b>Richard Weston</b> E. richard@richardwestonstudio.com	
Editors	Samuel Austin E. samuel.austin@ncl.ac.uk	
	Martin Beattie E. martin.beattie@ncl.ac.uk	
	NeilBurford E. neil.burford@ncl.ac.uk	
	Rachel Cruise	
	E. r.b.cruise@lboro.ac.uk GrahamFarmer E. graham.farmer@ncl.ac.uk	<b>arq</b> : Architectural Research Quarterly (issn 1359-1355 is published four times a year in March, June, September and December. Four parts form a
	Zeynep Kezer E. zeynep.kezer@ncl.ac.uk	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
	Katie Lloyd Thomas E. katie.lloyd-thomas@ncl.ac.uk	and Mexico) for institutions; £59.00 (US \$91.00 in USA, Canada and Mexico) for
	Juliet Odgers E. juliet.odgers@ncl.ac.uk	individuals and £42.00 (US \$71.00 in USA, Canada and Mexico) for students, which includes print only, ordering direct from the publishers
	Stephen Parnell E. stephen.parnell@ncl.ac.uk	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
Editors Reviews + Insight	Ruth Lang E. r.lang2@ncl.ac.uk	postage. EU subscribers (outside the UK) who are not registered for vat should add vat at their country's rate. vat registered members should
	Edward Wainwright E. edward.wainwright@ncl.ac.uk	provide their vat registration number. Japanese prices for institutions (including ASP delivery) are available from Kinokuniya Company Ltd, P.O.
Editorial Assistant	Alex Blanchard	Box 55, Chitose, Tokyo 156, Japan. Orders which must be accompanied by payment, may be sent to a bookseller, subscription agent or direct
Art Editor + Design	E. arq@ncl.ac.uk Angela Ashton	to the publisher: Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge CB2 8BS, UK;
Editorial Board	E. design@angelaashton.co.uk Simon Allford Allford Hall Monaghan Morris, ик	or in the USA, Canada and Mexico: Cambridge University Press, Journals Fulfillment Department,
	Andrew Ballantyne Newcastle University, UK Mark Burry Swinburne University, Australia	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
	<b>Carlos Eduardo Comas</b> Universidade Federal do Rio Grande do Sul, Brazil <b>Richard Coyne</b> The University of Edinburgh, ик	arrive with minimum delay. <b>Copying</b>
	Peggy Deamer Yale University, USA Susannah Hagan University of Westminster, UK Francine Houben Mecannoo, Holland	The journal is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, USA. Organizations in the USA who are
	Susanne Hofmann Die Baupiloten, TU Berlin, Germany Louisa Hutton Sauerbruch Hutton, Germany	also registered with C.C.C may therefore copy material (beyond the limits permitted by sections 107 and 108 of U.S. Copyright law)
	Mari Hvattum The Oslo School of Architecture and Design, Norway Timothy W. Hyde мпт, USA	subject to payment to C.C.C. of the per-copy fee of \$16. This consent does not extend to multiple
	Momoyo Kaijima Atelier Bow-Wow, Japan Silke Kapp Universidade Federal de Minas Gerais, Brazil	copying for promotional or commercial purposes. Code 1359-1355/2019/\$16.
	Ulrika Karlsson ктн, Sweden David Leatherbarrow University of Pennsylvania, USA Lesley Lokko University of Johannesburg, South Africa	ISI Tear Sheet Service, 3501 Market Street, Philadelphia, PA 19104, USA, is authorized to supply single copies of separate articles for
	Mary McLeod University of Columbia, USA Steven A. Moore The University of Texas at Austin, USA	private use only. Organizations authorized by the Copyright
	Michael Ostwald University of New South Wales, Australia Simo Paavilinen Aalto University, Finland	Licensing Agency may also copy material subject to the usual conditions.
	Jane Rendell Bartlett School of Architecture, UCL, UK Daniel Rosbottom TU Delft, Holland	For all other use, permission should be sought from Cambridge or from the American Branch of Cambridge University Press.
	Andreas Rumpfhuber Expanded Design, Austria Simon Sadler University of California, Davis, USA Flora Samuel University of Reading, UK	Information on <b>arq</b> : Architectural Research Quarter! and all other Cambridge journals can be accessed via http://www.journals.cambridge.org/
	Jonathan Sergison Sergison Bates Architects, UK Despina Stratigakos University at Buffalo, USA	This journal issue has been printed on FSC-certified paper and cover board. FSC is an
	Koen Steemers University of Cambridge, uк John Tuomey O'Donnell + Tuomey, Ireland Sarah Wigglesworth Sarah Wigglesworth Architects, uk	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.
	Jianfei Zhu The University of Melbourne, Australia	

© Cambridge University Press 2019

Printed in the UK by Bell & Bain Ltd, Glasgow

uarterly (issn 1359-1355)

tural Research Quarterly nals can be accessed

## contents

COVER <b>Sophie Baldwin,</b>	leader	203	Theatre, museum, basement, camp
Elizabeth Holroyd, and Roger Burrows	obituary	204	I.M. Pei: 1917–2019 Calvin Tsao
map elite residential basement developments recently constructed across London, illustrating plans for eight basements on Tregunter Road as 'extrusions'.	criticism	210	Zaha Hadid's Center for Contemporary Art and the perils of new museum architecture Elizabeth M. Merrill offers a reassessment of Zaha Hadid's Center for Contemporary Art, Cincinnati, within the context of new museum architecture and competing social, economic, and ideological expectations.
See pp. 267–282.	history	225	<b>Temple, machine, caravan</b> Fernando Quesada López examines a debate about theatre architecture and its relation to the city in late twentieth- century Italy to explore its engagement with questions of politics and the transformative potentials of theatre as ritual.
	theory	239	The plenitude of the Roman camp: a diagrammatic inquiry Randall Teal shows how a close study of the Roman army camp is able to offer a more responsive, flexible and generative model for thinking about the idea of the architectural diagram.
	environmental design	255	Victor and Aladár Olgyay's thermoheliodon: controlling climate to reduce climate control Lisa Moffitt employs Victor and Aladár Olgyay's thermoheliodon as a case study to present two contrasting models of climate control emerging in the postwar period that persist today in sustainable design.
	urbanism	267	Luxified Troglodytism? Mapping the subterranean geographies of plutocratic London Sophie Baldwin, Elizabeth Holroyd, and Roger Burrows map elite residential basement developments constructed between 2008 and 2017 across London; examining some 4,650 basements granted permission over the decade.
	review	283	<b>Concrete: Case Studies in Conservation Practice</b> Reviewed by John Allan
	insight	288	<b>Recalling Milton Keynes: visions of suburbia</b> David Prichard interviewed by Dhruv Sookhoo
	subscribe		A subscription form, which may be copied, can be found on page 202 of this issue

## architectural research quarterly Subscribe now for 2019

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

arq	Please enter my subscription to architectural research quarterly, volume 23, 2019			
	£345/\$579 institutions print and electronic			
	£42/\$71 students print only			
	£59/\$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)			
	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 journals_subscriptions@cup.org			
	arg 23.3			

2019