# BID

Published online by Cambridge University Press

# arq

Peter Carolin
Department of Architecture
University of Cambridge, 1 Scroope Terrace
Cambridge CB2 1PX, UK
T +44 (0)1223 332958/9
F +44 1011223 332960
E pc207@hermes.cam.ac.uk
Thomas Fisher
125 Architecture Building
College of Architecture and Landscape Architecture
University of Minnesota, 89 Church Street S.E.
Minneapolis, MN 55455, USA
T 00 1 612 626 9068
F 00 1 612 625 7525
# fishe033@tc.umn.edu
John Morris Dixon
382 Sound Beach Avenue
Old Greenwich
Connecticut 06870, USA
Tom Westbrook
125 Architecture Building, College of Architecture and
Landscape Architecture, University of Minnesota
89 Church Street S.E., Minneapolis, MN 55455, USA
Florian Beigel University of North London, UK
Peter Blundell jones University of Sheffield, UK
Claes Caldenby Chalmers University of Technology, Sweden
Jeffrey Cook Arizona State University, USA
Michael Crosbie Steven Winter Associates, Connecticut, USA
Max Fordham Max Fordham and Partners, UK
Robert Greenstreet University of Wisconsin, USA
Robert Gutman Princeton University, USA
Dean Hawkes University of Wales, Cardiff, UK
David Leatherbarrow University of Pennsylvania, USA
M.J.Long Long & Kentish, London, UK
John Macarthur University of Queensland, Australia
William Mitchell Massachusetts Institute of Technology, USA
Juhari Pallasmaa Arkkitchtitoimisto Johani Pallasmaa KY, Fin
Rodrigo Perez d'Arce Catholic University of Chile, Santiago, Cl
Alan Plattus Yale University, New Haven, USA
Sam Price Price & Myers, London, UK
Donald Prowler University of Pennsylvania, USA
Paul Richens University of Cambridge, UK
Julia Robinson University of Minnesota, USA

Paul Richens University of Cambridge, UK Julia Robinson University of Minnesota, USA Andrew Saint University of Cambridge, UK Brigitte Shim University of Toronto, Canada Robert Tavernor University of Bath, UK Donald Watson Rensselaer Polytechnic Institute, USA arg: 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 delivery by air where appropriate (but excluding var) of volume 3 is E95.00 (US \$156.00 in USA, Canada and Mexico) for institutions; E55.00 (US \$90.00 in USA, Canada and Mexico) for Individuals and £28.00 (US \$46.00 in USA, Canada and Mexico) for students ordering direct from the publishers and certifying that the journal is for their personal use. Single parts are £25.00 net (US \$41.00 in USA, Canada and Mexico) plus postage. EU subscribers (outside the UK) who are not registered for var should add var at their country's rate. var registered members should provide their var 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. The Edinburgh Building, Shaftesbury Road, Cambridge CH2 ZRU; or In the USA, Canada and Mexico: Cambridge University Press, 40 West 20th Street, New York, NY 10011-4211. 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

ile

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 \$9,50. This consent does not extend to multiple copying for promotional or commercial purposes. Code 1359-1355/99/\$9.50.

ISI Tear Sheet Service, 3501 Market Street, Philadelphia, PA 19704, USA, is authorized to supply single copies of separate articles for private use only.

Organisations 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.cup.cam.ac.uk/ and in North America via http://www.cup.org/

© Cambridge University Press 1999

Printed in the United Kingdom at the University Press, Cambridge

## contents

COVER King's College Chapel fan vault geometry. See pp.65-75	leader	5	A bridge between research and practice
	letters	7	Research assessment in the UK
	issues	9	Improving practice through knowledge and research DONALD WATSON
	design	14	Architectural intersections: Museum of Contemporary Art, Helsinki ESA LAAKSONEN
		28	A building as a contextual machine: the Printworks in Dublin RAYMUND RYAN
	history	43	Architectural competitions and bureaucracy, 1934–1945 ANDREW SHANKEN
	theory	57	Correalism and Equipoise: observations on the sustainable WILLIAM W. BRAHAM
inform	ation technology	65	Reconstructing architectural geometry EARL MARK
	practice	77	The political paradoxes of practice: political economy of local and global architecture DANA CUFF
	directory	89	Research centres and consultancies
	reviews	91	Thinking Architecture <i>and</i> Peter Zumthor Works: Buildings and Projects 1979–1997 reviewed by Tom Peters
		0	Envelope Design for Buildings reviewed by John Winter
		0	Robert Maillart: Builder, Designer, Artist reviewed by Mark Whitby
		0	Digital Building reviewed by Paul Richens
		0	Louis I. Kahn: Conversations with Students <i>and</i> Rem Koolhaas: Conversations with Students <i>reviewed by John Morris Dixon</i>
	insight	96	Without rhetoric ROBERT MAXWELL

### complete your collection

Limited stock of **arq** back issues 1–8 are available on a first come, first served basis Each issue costs £25/\$41 and includes postage\*

\*Copies are sent by airspeeded delivery where appropriate

To order, customers in the USA, Canada and Mexico should email Cambridge University Press, in New York, USA, at journals\_marketing@cup.org

Customers elsewhere should email Cambridge University Press, Cambridge CB2 2RU, UK at journals\_marketing@cup.cam.ac.uk

You can access the contents of each issue on the Cambridge server at the following url:

http://www.cup.cam.ac.uk

