Contents

Preliminaries

James W.P. Campbell  Introduction   i

Archives

Louisa Matthews, Julian D. Richards  Built Legacy: Digital Preservation of Historic Building and Structure Recording   3

Education and Training

Richard Hayes  Teaching Building: Practical Training at the Architectural Association during the Post-War Years   15
Sarah Melsens, Priyanka Mangaonkar-Vaiude, Inge Bertels  The Emergence and Impact of Vocational Training in the Building Trades in Pune (India): An Analysis of Three Institutes   27

The Ancient World

Gudrun Styhler-Aydin, Marina Döring-Williams  The Fortification Walls of Hisn al-Bab on the Southern border of Egypt: An Analysis of Structures and Building Techniques   43
John Gelder  Comparing ‘as Documented’ with ‘as Excavated’ in Ancient Egypt   55

The Middle Ages

Michael Tutton  Stout Trees and Putlogs: Tales of Early Scaffolding up to C.1600   69
C. How  An Early Use of the ‘Oliver’ in Nail Production   81

Karl Magnus Melin  Techniques of Cleaving Wood with an Axe And Mallet-Deconstructing Present Craft Knowledge, in order To Reconstruct Historic   89

Aturs Lapins  Cesis Castle, Latvia: Historical Techniques in the Medieval Structural Ceramics Revealed   101

Marina  The Kufic Inscription Of The Maiden Tower In Baku.   109
Contents

Döring-Williams, Luise Albrecht
Building Processes Indicating The Date Of Construction

Shirley Markley
Filling the Void – Earth Mortared Masonry Buildings; Unearthing Ireland’s Medieval Settlement Record

Mattias Halgren, Gunnar Almevik
The Craftsmanship in Construction and Transformation of Historic Campaniles

Alex Buchanan, Nick Webb
Tracing Tiercerons: An Evaluation of the Significant Properties of Thirteenth and Fourteenth-Century Tierceron Vaults in England

David Wendland, Frédéric Degenève
How to Order Fitting Components for Looping Ribs: Design Procedures for the Stone Members of Complex Late Gothic Vaults

The Seventeenth and Eighteenth Centuries

James W P Campbell
Three Oxford Roofs from the Late Seventeenth and Early Eighteenth Century Attributed to Dean Henry Aldrich

Francois Calame, Andy Hyde
Nicolas Fourneau - Master Carpenter and Author of the First Modern French Treatise on Geometrical Carpentry Drawing

Dermot O’Dwyer, Ronald Cox
George Semple and the Construction of St. Patrick’s Hospital Dublin (1749-1753)

The Nineteenth Century

Louis Vandenabeele, Inge Bertels, Ine Wouters
The Timber Roof Of The Gothic Revival Broodhuis (Brussels, 1873-1895): Design, Construction And Collaboration

Romain Wibaut, Ine Wouters, Thomas Coomans
Construction of Church Roofs in the Brussels Capital Region, 1830-1930: Ahead of Technology?

Giulia Chemolli
The Österreichischer Ingenieur- und Architekten-Verein’s Tests on Vaults 1890-1895.

Elizabeth Shotton
Port Oriel: God’s Own Dock, or Abomination?

Marianne de Fossé
The Choice of Construction Materials in Historic Urban
<table>
<thead>
<tr>
<th>Authors</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inge Bertels, Ine Wouters</td>
<td>Warehouses in Antwerp and Brussels</td>
</tr>
<tr>
<td>John McGuinness</td>
<td>Early Concrete Housing in Maidenhead and Elsewhere in The British Isles</td>
</tr>
<tr>
<td>Sabin Kuban</td>
<td>The Introduction of Reinforced Concrete in Berlin - A Close Reading of Historic Statistical Data</td>
</tr>
<tr>
<td>Bernard Espion</td>
<td>The Beginnings of the Blaton Company: From the Trade of Construction Materials to Established Contractor in Belgium, 1865-1914</td>
</tr>
<tr>
<td>Mike Chrimes</td>
<td>George Stephenson &amp; Son: Consulting Engineering on the Cusp of the Railway Age</td>
</tr>
<tr>
<td>Jelena Dobbels, Inge Bertels and Ine Wouters</td>
<td>The Belgian General Contractors’ Struggle for Legal Recognition</td>
</tr>
<tr>
<td>Rossella Putzolu</td>
<td>The Monteponi Society: A Mining Company that Changed a Territory</td>
</tr>
</tbody>
</table>

**The Twentieth Century**

<table>
<thead>
<tr>
<th>Authors</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mario Rinke</td>
<td>The Domes of the University of Zurich and the SUVA Head Quarters in Lucerne: Early Glulam Construction in Switzerland</td>
</tr>
<tr>
<td>Linsey Raafels, Inge Bertels, Stephanie Van de Voorde</td>
<td>Constructive Experiments in Architects’ Houses. The Case of Louis Herman De Koninck’s House in Brussels</td>
</tr>
<tr>
<td>Rika Devos</td>
<td>Building prestige: Victor Horta’s Palais des Beaux-Arts (1922-8) as Blaton’s breakthrough for building in reinforced concrete in Belgium</td>
</tr>
<tr>
<td>Iva Stoyanova</td>
<td>Disappearing Tobacco Warehouses in Plovdiv: Building</td>
</tr>
</tbody>
</table>

345 357 365 375 387 399
Contents

Technology and an Important Legacy

Michael Mulvey  ‘Digging for Gold’: Irish Immigrant Entrepreneurs in the Post-war Reconstruction of London  415

Laura Greco  The Rehabilitation of the Mirafiori Factory in Turin. The Case of the Northern Extension of the Officine Principali by Nervi & Bartoli (1954-1955)  425

Vladimir Ladinski  Residential Construction Following the 1963 Skopje Earthquake  435

Marisela Mendoza  Construction of the 21 Hyperbolic Paraboloid Concrete Shells to Roof the Queensgate Market Hall, Huddersfield  447

Will MacLean  Building with Glass: Tim Macfarlane and the Development of Glass as a Load-bearing Structural Element  457


Silvia Alberti  Construction Aspects of the Church of Santa Lucia in Cagliari, Italy.  481

Repair and Conservation

Matthias Garn  The Clay Tile Repair: Form, Function and Value  493

Harald Røstvik  Reconstructing Ludwig Wittgenstein's House in the “Quiet Seriousness” of Skjolden, Norway  505