

Contents

Preliminaries

Campbell, James WP.	Introduction	i
---------------------	--------------	---

Keynote Lecture

Stephenson, Judy	Day Work, Task Work and Watch Work: Labourers at St Paul's Cathedral 1672-1748	3
------------------	--	---

Ancient World (pre-1000AD)

Gelder, John	The Documentation of Stonework in the Ancient World	15
Gelder, John	Professional Roles in Greek Construction Contracts	23
Campbell, James	The Development of Water Pipes: a Brief Introduction from Ancient Times until the Industrial Revolution	33
Rosado-Torres, Ana Laura & Gilabert- Sansalvador, Laura & Montuori, Riccardo	Stonecutting in Maya Architecture: The Palace of the Governor at Uxmal (Yucatan, Mexico)	47

Medieval World (1000 CE – 1400 CE)

Gutiérrez-Hernández, Alexandra M.	The Art du Trait in the Monastery of La Vid in Burgos (Spain)	63
Mazzone, Giuseppe	Through the Layers of Time – The Evolution of Interlaced Ribbed Domes from Islamic Spain to the Italian Baroque	73

Contents

Mazzanti, Claudio & Bulfone Gransinigh, Federico	Medieval watchtowers of the mountainous areas of the Abruzzi Region: typologies, construction techniques and territorial landscape	85
Maira-Vidal, Rocío	Two Masters, Two Methods. First Steps Towards English Standardisation in The Construction of The Sexpartite Vaults in Canterbury Cathedral	97
Vandenabeele, Louis	Medieval formwork imprints in the Basilica of St Anthony in Padua	111

Renaissance and Late Gothic World (1400-1600)

Celli, Sofia & Ottoni, Federica	From construction to maintenance. The history of the wooden chain encircling the dome of Santa Maria del Fiore	121
Maissen, Manuel	Late Gothic Vaulting in the Canton of Grisons, Switzerland	133
Knobling, Clemens	Vaults Without Buttresses: A Survey of Swiss Roodscreens	147
Carocci, Caterina F & Finocchiaro, Renata & Macca, Valentina	The so-called ‘Palazzetto’ in the Palazzo di Venezia Complex: A small construction history among the huge transformation events of the Rome centre in the early twentieth century	157
Diaz, Martina	Contextualisation of the timber trade between the sixteenth and nineteenth centuries in the Basilica of St Anthony, Padua	169
Bentz, Bruno	On The Origins of Hydro-Technics: The Gardens of Noisy (1570)	183

The Seventeenth and Eighteenth Centuries (1600-1800)

Holzer, Stefan M.	How to Build a Dome	197
Pirlet, Gabriel & Schumacher, Guido & Vanden Eynde, Jean-Louis	Ornamental Hydraulics in the Arenberg Park of Enghien in the 17th Century: a possible link to Salomon de Caus	207
O'Dwyer, Dermot	William Colles (1702-1770) Kilkenny Mayor, Entrepreneur, and Marble Necromancer	229
Lluís-Teruel, Cinta & Ugalde-Blázquez, Iñigo & Lluís i Ginovart, Josep & Hadji, Zahra	The Behaviour of Tile Vaulted Structures in Spanish Military Engineering	243
Bill, Nicholas A.	Pioneering Education for a Unique Engineering Profession – British Military Engineers	257
Carvais, Robert	The social status of Parisian building contractors in the 18th century. A hierarchical and ambitious professional "body" : between nobility and destitution	269

Long Nineteenth Century (1800-1914)

Buchenau, Geraldine & Kuban, Sabine	Time to Re-Evaluate? – New Findings on the Application of the Hennebique System in Germany	289
Ellis, Clifton	Agrarian Capitalism and The Cost of Building in Antebellum Virginia	303
Prisco, Gian Marco	The Madrid-Delicias Railway Station: between formal and technological innovation in the 19th century Iberian Peninsula	313

Contents

Burgos Núñez, Antonio & Kite, Maxwell Adrian	Plate Girder Bridges in Andalusia, 1850-1910. The Spread of an Unusual Genre of Iron Bridges	327
Yagci Ergun, Saniye Feyza and Schuller, Manfred	Timber frame system after the western influence on the houses of Istanbul	339
Spencer, Chelsea	Faulty Figures and Paper Technologies: Cost Estimating in Late Nineteenth-Century America	347
von Behr, Nick	The Influence of Standards and Regulations for Steel and Reinforced Concrete on the Development of Modern Architecture in Pre- WW1 Paris and Brussels	355 364
Campolongo, Alessandro & Guagliardi, Valentina	Architecture and building traditions in the territory of Cosenza: the 1910 Colonia Silana	365

The Twentieth Century (1900-2000)

Baker, Nina	Development of the UK Government's support for Construction-related Research in the 20th Century: the role of the Department of Scientific and Industrial Research	379
Yeomans, David	Not Just the Dirty Work: engineers' contributions to architecture	389
Mestre-Martí, Maria & Jiménez-Vicario, Pedro M. & Ródenas-López, Manuel A.	The History of the Construction of the Cuban National Capitol	401
Baker, Nina	Women engineers in UK construction research establishments in the mid-20th century. A preliminary survey	415
Greco, Laura	Construction Standardisation in Italian Service Stations (1930s-1950s). Projects by Luigi	425

Piccinato and Mario Bacciocchi

Ladinski, Vladimir	A Century of Professionalism in Construction in North Macedonia (1920-2020)	437
Rusak, Maryia	From ‘Workers’ to ‘Operators’: Labour of Moelven Brug	451
Yeomans, David	Frank Newby’s Star Beams	463
Spada, Francesco	Società Generale Immobiliare (SGI) Prefabrication Methods for Italian School Buildings in 1960s	473
Nozawa, Shuntaro & Komiyama, Yosuke	High Tech Attitude as a Corrective of Japanese Industrialised Housing: The Work and Discourses of Kohko Takahashi	483
Giannetti, Ilaria	Experimental structures and reinforced concrete in church building in Italy: design and construction of three hyperbolic paraboloids (1961-68)	497