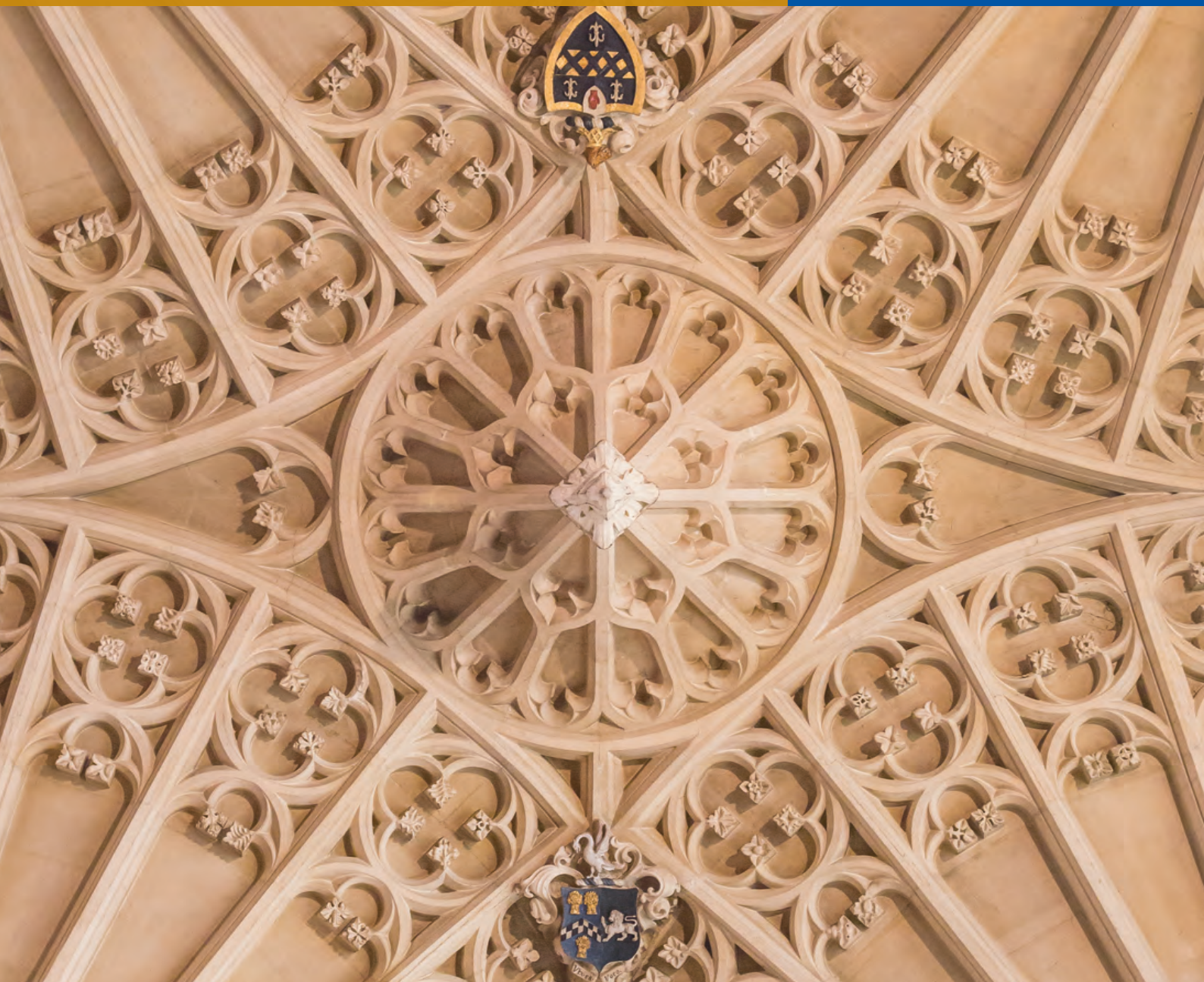


Conservation, Adaptation and Maintenance of the Built Environment

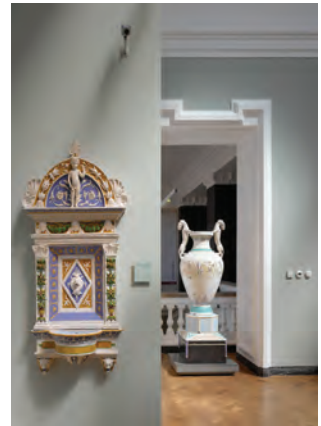
Tuesday 30 April 2019 | Church House Westminster

Programme Guide





Celebrating 40 years in 2019



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Welcome to the Conservation, Adaptation and Maintenance of the Built Environment

On behalf of the Chartered Institute of Building, and English Heritage, I would like to extend a very warm welcome to this year's conference in this superb venue. Located on the grounds of the breathtaking Westminster Abbey, a World Heritage Site with over a thousand years of history.

Today is our sixth annual conference on the conservation, adaptation and restoration of our built environment. Encouragingly this is a sell-out event each year, so we know this topic matters to you as much as it does us.

25% of the UK building stock is pre-1919, so most construction professionals will work on historic buildings during their career. Today we will explore quality and standards in the heritage sector.

We like to make our conferences as interactive as possible, so there will be a wide range of presentations including on-going projects such as Battersea Power Station and Darlington's own Hippodrome Theatre.

The conference agenda has, in part, been shaped by the CIOB Conservation Special Interest Group and our thanks go to all our speakers for giving up their time to share expertise with you.

We would also like to thank our sponsors for helping make today possible.

Finally, I would like to thank you all for taking the time out of your busy schedules to attend our event. Advancing the science and practice of building and construction is at the core of CIOB activity so I trust you will be rewarded with a highly enjoyable and educational day.

Rory Cullen FCIQB

Chair of CIOB's Conservation Special Interest Group
and Director of Cullen Conservation

Coniston



Chase de Vere



Morning Agenda

9:00 am

Arrival and Registration

9:30 am

Welcome

Rory Cullen, Chair of CIOB's Conservation Special Interest Group, Director of Cullen Conservation

9:35 am

CHAIR

Ros Kerslake OBE, Chief Executive, The National Lottery Heritage Fund

9:45 am

International Importance of Built Heritage

Dr Sabine Haag, President, Austrian Commission for UNESCO

- World Heritage: History and Status Quo of the Convention
- Conservation of Cultural Heritage: Challenges and Threats
- Urban World Heritage and Development: Possibilities and Chances

10:15 am

Historic Digital Survey - Point Clouds & Beyond

Dr Alan M Forster, Associate Professor and Programme leader for the MSc in Building Conservation, Heriot Watt University

- A comparative analysis of laser scanning vs photogrammetry
- The development and application of bespoke well-crafted algorithms for the automatic segmentation of rubble and ashlar masonry walling
- The innovative development of machine learning algorithms for ashlar masonry defects
- The utilisation of the aforementioned segmentation algorithms to facilitate interpretation of historic masonry

10:45 am

An Approach for Sustainable Conservation | English Heritage

Kate Mavor, Chief Executive, English Heritage & **Rob Woodside** Estates Director, English Heritage

- 'Sustainable conservation', English Heritage's progressive new approach
- An evidence-based framework for the continuing care of heritage sites
- How a focus on significance can help prioritise, plan and measure success

11:15 am

TEA & COFFEE

11:45 pm

Ensuring a Competent Workforce

Professor John Edwards, Director Edwards Hart Consultants, Professor on Practice University of Wales Trinity St David

- How can we treat all older buildings properly – delivering quality
- Competencies, training and qualifications – now and the future
- A game changer – the CIOB Conservation Competency Scheme
- How to make yourself stand out – for you and your business

12:30 pm

Q&A Session

12:55 pm

Guidance & Information on CIOB'S Building Conservation Scheme and CIOB Academy's course in Understanding Building Conservation

Rosalind Thorpe, Associate Director - Education and Standards, CIOB

Afternoon Agenda

1:00 pm

Lunch

2:00 pm

CHAIR

Charles Egbu FCIOB, Senior Vice President, CIOB

2:00 pm

Building Regulations - Debunking the Truths & Myths

Gary Cass, Managing Director, ICW Technical Services

- The importance of the system of Building Regulations
- Explore and dispel common Building Control 'myths'
- Discuss the interaction of the Building Regulations and heritage buildings

2:30 pm

Case Study | Battersea Power Station: Conservation, Adaptation and Maintenance

David Hills, Partner | Architect, Purcell

- Conservation of the Grade II* listed fabric
- Use of modern technologies in historic contexts, including pre-fabrication
- Streamlining of consents to facilitate future maintenance and adaptation

3:00 pm

Case Study | Changing the Perception of Apprenticeships

Marie-Theres Sobik, International Trade Advisor at Düsseldorf Chamber of Crafts and Skilled Trades & **Steve Clarke**, Contracts Director for Coniston Limited

- Introduction of German approach to Artisans and Craftmanship
- The partnership between the Dusseldorf Chamber of Crafts & Skilled Trades and UK Contractors
- The ultimate aim of the scheme

3:30 pm

TEA & COFFEE

4:00 pm

Case Study | The Heritage Paradox: Can buildings with a long history attract new diverse talent?

Mike Coleman, Operations Director & **Hannah Prowse**, Pre-Construction Manager, Sir Robert McAlpine Special Projects

- The Heritage sector attracts a diverse crowd of talented young people
- Old buildings fuel passions, excitement, care and technical excellence
- Could this help the skills gap in the construction industry?

4:30 pm

Case Study | Darlington Hippodrome & Theatre Hullabaloo

Sean McNicholas, CMYA 2018 Gold Medal Winner & **Dr. David Wilmore**, Founder, Theatresearch

- A brief history of The Hippodrome and the conservation and restoration challenges we faced (David Wilmore)
- The challenges that were faced during the construction phase (Sean McNicholas)

5:00 pm

Q&A Session

5:30 pm

SUMMARY & DRINKS RECEPTION

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Speaker Biographies



Gary Cass

Managing Director, ICW Technical Services

Gary Cass is a Building Control professional with extensive experience of working in the public and private sectors. Gary became interested in traditional fabric early on in his career, which culminated in him undertaking research on the subject as the first CIOB & LABC standards scholar.

Since the scholarship, Gary has gained a Master's degree at Cambridge University. His thesis focused on Building Control and mental health. He was also a member of the CIC and NHBC Hackitt review groups and aided the MHCLG on writing a guidance note on cladding. As well as being the MD for ICW Technical Services and CIOB policy board member, Gary is also undertaking a part time PhD. He is also a Member of the Chartered Institute of Building (MCIOB).



Steve Clarke

Contracts Director, Coniston

Steve Clarke, is the Contracts Director for Coniston Limited. Steve has over thirty years' experience in the construction industry, focusing on projects within the conservation and heritage sector. During his career Steve has worked with The British Museum, Victoria and Albert Museum, National Gallery, Somerset House, Church House and the Natural History Museum. This is also the third occasion that Steve has had the pleasure of speaking at the Conservation Conference, sharing his knowledge and expertise with industry experts.



Mike Coleman

Operations Director, Sir Robert McAlpine Special Projects

Mike Coleman has been involved with many of London's national heritage icons. Leading sector recognised teams for works at the RAC Clubhouse Pall Mall and Warfield House in Berkshire, his portfolio includes Admiralty Arch, The Mansion House, Chandos House, Kensington Palace Orangery, Somerset House and the Elizabeth Tower.

Having read History at Manchester University, Mike joined John Laing Construction on their non-technical graduate programme in 1986 transferring to Holloway White Allom as an Assistant General Foreman in 1988.

Mike has led Sir Robert McAlpine Special Projects since 2016. He is now keen to ensure that a new generation can grasp the values and opportunities that Heritage and Conservation can offer to them, providing they are inquisitive and dedicated. Mike is passionate about the life and energy in our sector and, recognising the challenges of the skills gap, wishes to shine a light on the parallel good news story.



Rory Cullen

Chair of CIOB's Conservation Special Interest Group and Director of Cullen Conservation

Rory Cullen is Director of Cullen Conservation, a Heritage Consultancy he set up in December 2017 following his 15-year tenure as Head of Buildings for the National Trust, where he was responsible for ensuring his team of 120 Building Surveyors and 150 Direct Labour Craftsmen maintained the highest professional standards for the Trust's 28,500 buildings and structures.

As Chair of the Chartered Institute of Building Conservation Special Interest Group, he has coordinated the Heritage Certification Scheme, and also had a key role in the revision of BS 7913: 2013 - the industry standard for the Conservation of Historic Buildings.

He is a Fellow of the CIOB, a member of the IHBC and has an MSc in Building Conservation. He also holds Certification in European Heritage Site Management, and is fully certified as a Heritage Practitioner.



Professor John Edwards

Director Edwards Hart Consultants, Professor on Practice University of Wales Trinity St David

Until 2014 John held one of the UK's most senior building conservation positions as Assistant Director of Cadw, the Welsh Governments Historic Environment Service and prior to that worked for English Heritage. At Edwards Hart he leads on building conservation, sustainability, energy efficiency and project management and working across the UK and Ireland. John also leads on their education and management consultancy work and examples include contributing to the National Trust buildings review and the development of the CIOB Building Conservation Certification Scheme.

He contributes to the development of best practice which includes lead authorship of BS 7913: 2013: Guide to the Conservation of Historic Buildings, lead author of the RICS iSURV resource on 'Managing Risks in Building Conservation Projects' and a member of BSI committees covering both conservation and energy efficiency and retrofit. In his professor role he contributes to the education of students and practitioners in the UK and overseas. He is also a Fellow of the Chartered Institute of Building (FCIOB).

Event Speakers



Professor Charles Egbu
Senior Vice President, CIOB

Professor Charles Egbu is Dean of School of the Built Environment and Architecture at London South Bank University, England, UK, where he holds the Chair in Project Management and Strategic Management in Construction. His First Degree was in Quantity Surveying [First Class Honours] – Leeds Metropolitan University, UK, and he worked briefly as a site Quantity Surveyor for a large UK construction company. His Doctorate was obtained from the University of Salford, UK, in the area of Construction Management. He is a Fellow of the Chartered Institute of Building (FCIOB), Fellow of the Royal Institution of Chartered Surveyors (FRICS), Fellow of the Association for Project Management (FAPM), Fellow of the Royal Society for the Encouragement of Arts, Manufacture and Commerce (FRSA), and Fellow of the Higher Education Academy (FHEA). He is currently Vice Chair of the CIOB Policy Board.

He has contributed over 350 publications in various international journals and conferences and has spoken at many conferences in his areas of expertise.



Dr Alan Forster
Associate Professor and Programme leader for the MSc in Building Conservation, Heriot Watt University

Dr Alan M Forster is Associate Professor at Heriot-Watt University, Edinburgh.

He has 10 years industrial experience in building surveying, general construction and building conservation practice. He has worked in academia for over 12 years and has published extensively on a wide range of topics including; Traditional and low carbon building materials; Philosophical and technical approaches to fabric repair; Building pathology and maintenance; Survey, recording, evaluation and interpretation of historic buildings; and most recently he has undertaken research into the application of digital technologies utilised in support of historic building repair. Professionally he is a Fellow of the Chartered Institute of Building (FCIOB); a Fellow of the Chartered Association of Building Engineers (FCABE); and a full member of the Institute of Historic Building Conservation (IHBC) and a Society for the Protection of Ancient Buildings (SPAB) Lethaby Scholar.



Dr Sabine Haag
President, Austrian Commission for UNESCO

Dr Sabine Haag holds a number of high profile roles within the heritage and art history world, including her current position as President of the Austrian Commission

for UNESCO (the UN Educational, Scientific and Cultural Organisation). She is also Director General of the KHM-Museumsverband (Kunsthistorisches Museum, Weltmuseum Wien and Theater Museum) in Vienna. Prior to that, Dr Haag served for many years as the Director of the Kunstkammer and the Secular & Ecclesiastical Treasury of the Kunsthistorisches Museum. She also sits on a number of boards and committees, including the scientific advisory council of the Zentralinstitut für Kunstgeschichte (Central Institute for Art History) in Munich, the executive board of the Germanisches Nationalmuseum, Nuremberg, and the cultural executive board of the annual summer Bregenz Festival.

Dr Haag is also the author of countless papers, publications and lectures on baroque ivory, wax, amber and wood sculpture and the history of collecting and has collaborated on numerous research projects.



David Hills
Partner | Architect, Purcell

David is a Conservation Architect, Heritage Consultant and educator, working on numerous listed buildings, Scheduled Ancient Monuments and World Heritage Sites in the UK and internationally. Equally

at home with design or technical issues or heritage reporting, David's skills bridge the gap between architecture and heritage consultancy. He lectures regularly on building conservation and his writings have been published in various national newspapers and journals, together with appearances on heritage-related BBC and Sky Arts television programmes.

David has been working as Conservation Architect at Battersea Power Station since 2013, with particular responsibility for the repairs to the external envelope, including brickwork and concrete. He also acts as Heritage Advisor for the internal fitout works and as Heritage Consultant for planning issues.



Ros Kerslake
Chief Executive, The National Lottery Heritage Fund

Ros Kerslake OBE is Chief Executive of the National Lottery Heritage Fund. Ros trained as a solicitor before taking on leadership positions in the private sector (Gulf Oil and Booker Group). Later, as Property Director of Railtrack, she developed an interest in place and urban regeneration, going on to lead RegenCo in the West Midlands.

In 2006 Ros became CEO of The Prince's Regeneration Trust, establishing it as a leading heritage-led regeneration charity. A key achievement was saving Middleport Pottery.

Ros is a non-executive director of U+I group, and a member of the Community & Voluntary Service Honours Advisory Committee. In 2016 Ros received an OBE for services to

British Heritage. Ros holds two honorary doctorates, from Staffordshire and Keele Universities, for her work in heritage and regeneration, and has a degree in Law and Psychology and an MBA.



Kate Mavor
Chief Executive, English Heritage

Kate Mavor is CEO of the English Heritage Trust, a charity formed in 2015 to conserve and promote 420 historic sites and over 500,000 artefacts, covering six millennia of England's history. These include

Stonehenge, Hadrian's Wall, Kenwood, Osborne, 66 castles and 84 ecclesiastical sites – as well as the London Blue Plaques. Previously wholly reliant on state funding, the charity is aiming for financial independence by 2022.

Kate was formerly CEO of the National Trust for Scotland, ProjectScotland and Language Line. Kate is a graduate and Honorary Fellow of Trinity College, Oxford, holds an honorary degree for services to conservation from Heriot Watt University and was formerly Trustee of the National Youth Theatre.



Sean McNicholas
CMYA 2018 Gold Medal Winner

Sean McNicholas graduated from Northumbria University in 2002. He has worked in the industry as an operational lead in many sectors but most recently, in conservation and refurbishment. His

restoration of the Darlington Hippodrome and Theatre Hullabaloo in Darlington, earned him a gold medal at the CIOB Construction Manager of The Year Awards in 2018. He is a Member of the Chartered Institute of Building (MCIOB).



Hannah Prowse
Pre-Construction Manager, Sir Robert McAlpine Special Projects

Hannah has followed a less traditional route into the construction industry, having trained as an Archaeologist at UCL, then working for Sotheby's before joining

Sir Robert McAlpine in 2011. Now a leading figure in Special Projects, she combines her passion for heritage conservation with her extensive experience of managing construction services carefully tailored to clients' specific needs.

She has played an instrumental role in developing the Special Projects division which delivers buildings of exceptional quality for their end user, utilising Sir Robert McAlpine's extensive in house skill set of traditional and cutting edge approaches. Leading the preconstruction team, her portfolio includes a host of prestigious projects ranging from the revamp of

the Courtauld Institute of Art to the redevelopment and refurbishment of The Inner Temple, the new extension to Shakespeare's Globe and the cutting-edge new build of Maggie's cancer care centres.



Marie-Theres Sobik
International Trade Advisor,
Düsseldorf Chamber of Crafts and
Skilled Trades

Marie-Theres Sobik is the International Trade Advisor at Düsseldorf Chamber of Crafts and Skilled Trades. Düsseldorf

Chamber of Crafts is one of the two largest Chambers of Crafts in Germany. They have over 85,000 member companies, many of them in the construction sector. Marie-Theres has over 15 years experience in export consultancy of SMEs with a strong focus on the British market. Marie-Theres has lots of experience with companies working in the heritage sector and has organised many different trade missions to the UK for enterprises to open up the British market.



Dr David Wilmore
Founder, Theatresearch

Dr David Wilmore was educated at Newcastle University where he became involved with the restoration of the Tyne Theatre & Opera House. On Christmas Day 1985 the stage house was gutted by fire and he spent the next two years restoring the theatre a second time. He formed theatresearch in 1986 and has been involved in many theatre restoration projects including the Georgian Theatre Royal, Richmond [1788], Theatre Royal Newcastle upon Tyne [1837 & 1901], Theatre Royal, Bristol [1766] and the Gaiety Theatre & Opera House, Isle of Man [1900]. He has a PhD in the development of nineteenth century stage technology, is a past Chairman of the Association of British Theatre Technicians, Chairman of the OISTAT Research Commission, a Leverhulme Post-Doctoral Research Fellow at the University of Manchester researching James Winston and The Theatrical Tourist, and a visiting scholar at the University of Hull.

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The European Heritage Academy is an internationally certified training initiative. The education was mainly developed in the EU project MODI-FY (Maintaining Historic buildings and Objects through Developing and Upgrading Individual Skills of Project Managers: Fostering European Heritage and Culture for Years to come) for all professional groups working on historic buildings and is also based on practical experience. The Academy is currently operated by the Burghauptmannschaft Österreich (BHÖ) in cooperation with the Federal Monuments Office, Information and Further Education Centre for Monument Preservation, in the Charterhouse Mauerbach, Austria and started the regular operation with the first module in December 2017.

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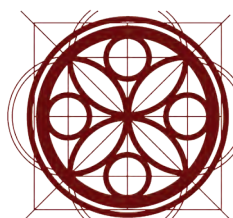


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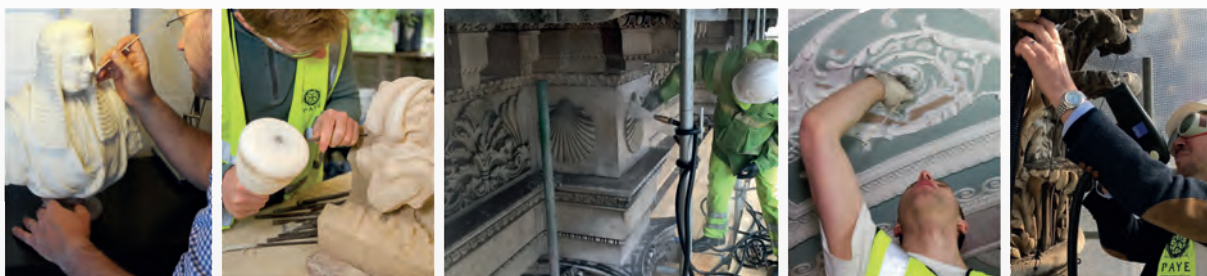
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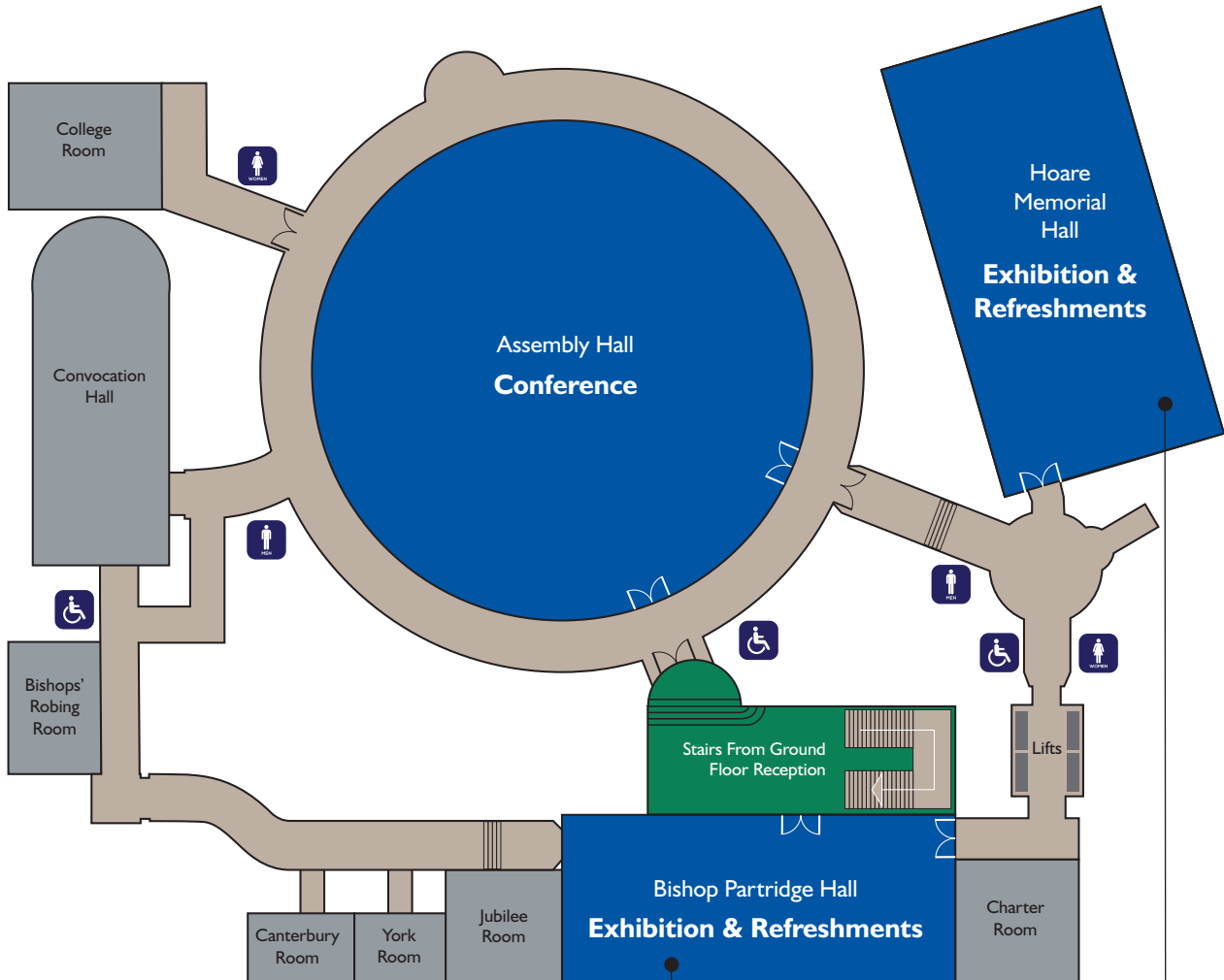
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