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The original scheme of polychrome decoration in the entrance hall at the British Museum
Ian BRISTOW

When completed in 1847, Robert Smirke's entrance hall at the British Museum, London, was embellished by his brother Sidney Smirke and the decorator Leonard Collmann with an elaborate polychromatic scheme derived from ancient Greek sources. This employed over 65 colours, and survived, partly repainted and touched up, until the 1930s, when it was

obliterated. In 2000 it was re-created through a combination of documentary research and physical investigation. In this article, the history of the scheme is noted, the process of recreation described, the antique sources used in 1847 considered, and an assessment made of the importance of the scheme in mid-nineteenth-century Britain.

Re-presentation of the principal rooms at Osborne House, Isle of Wight **Alasdair GLASS**

Queen Victoria died at Osborne House in 1901. The ground floor of the Pavilion Wing, as it was originally called, was first opened to the public in 1904. As part of the commemoration of both centenaries, English Heritage has re-presented the Drawing Room, Billiard Room and Dining Room. The rooms are presented essentially as they would have appeared in the middle of the day at the end of Queen Victoria's life, but they retain the integrity of their appearance as they would have been when fully completed in 1857. The Decorative schemes have been conserved and restored, the soft furnishings restored, the contents conserved, some displaced items reinstated and replacements made for others.

Restoration of the Cundy House, Bolsover Castle **Nick HILL**

The Cundy House is a small conduit house built in the early seventeenth century to provide a water supply to Bolsover Castle. Consolidated as a roofless ruin in the 1970s, it became a target for vandalism and misuse. Detailed investigation discovered that the building originally had a solid stone-vaulted roof. This unusual roof form was restored in 2002-3 by English Heritage, providing a secure solution to the problems which the building has faced.

Creeping change in the Cotswolds **Robin WYATT**

In 1904. B T Batsford published *Old Cottages, Farm-houses and other Stone Buildings in the Cotswold District*, illustrated with excellent photographs. A hundred years on, Robin Wyatt revisits many of the buildings. He records and explores the representative changes that have taken place, with up-to-date photographs.

The conservation of the external fabric at Kew Palace **Tony DYSON**

Kew Palace, often known as the 'Dutch House' on account of its Flemish-style brickwork, was built in the 1630s. This article gives an account of the comprehensive programme of external repairs which were carried out in 1996-9. Repairs to the intricately detailed brickwork were particularly challenging. Following careful research, the brick facades were restored to their original finish, with fine penny-struck pointed joints and overall application of terracotta-coloured limewash, transforming perceptions of the building.

Brompton Barracks, Chatham **Clive ENGLAND and Brian LOFTHOUSE**

James Wyatt's Brompton Barracks was the largest barracks built during the Napoleonic Wars and has remained in its original use ever since. Its recent refurbishment has economically updated the much-altered interiors to modern standards while conserving and enhancing its historic character.

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The Buckler Family: A Study in Nineteenth-Century Attitudes to Medieval Buildings

John WOODCOCK

The work of three generations of the Buckler family as topographical artists, antiquaries and architects, covered over one hundred years and displayed a high degree of consistency and integrity when compared with changing contemporary attitudes to medieval buildings. It is possible to gain a new respect for nineteenth-century restorers, such as the Bucklers, by studying their drawings and written work. Reassessing the merits of their restoration work can help to guide those currently engaged in the care of these ancient buildings.

Roped Access for Conservation

Joseph PICALLI

Industrial roped access is a method of enabling suitably trained tradespeople and professionals to examine and work in areas which are otherwise difficult and expensive to access. Over the past fifteen years there has emerged a group of roped access trained conservators who have been employed by cathedral works departments, fabric surveyors and historic building property managers to undertake a variety of tasks. Thus the use of roped access in the assessment and maintenance of high-level areas of historic buildings has become part of the range of options open to those charged with the preservation of our built heritage. This article will introduce the techniques of roped access, explain how they have been adapted for work on historic fabric and describe how it can be of use in the conservation of otherwise inaccessible areas of historic buildings.

Kirby Hall: The Inside Story

Nick HILL

Kirby Hall is an Elizabethan house which became largely ruinous in the nineteenth century. It was taken into state care in 1930 and underwent a lengthy programme of consolidation. This article focuses on the treatment of the interiors of the roofed section of the house, which have been the subject of differing views and approaches over many decades, concluding with the recent programme of work in 2001-4.

The Refurbishment of Chicksands Priory, Bedfordshire

Clive ENGLAND and Brian LOFTHOUSE

Chicksands Priory is a rare example of a Scheduled Monument of medieval monastic origins still in beneficial use. After 25 years of virtual disuse, it has been sympathetically reused as an Officers' Mess, enhancing rather than detracting from its essential qualities and without undue compromise for its users.

Strengthening the Flint Tower of St Mary and St Peter's Church, Barham, Suffolk

Shawn KHOLUCY

This medieval flint church tower suffered from serious progressive cracking and active movement. The stability of the whole structure was threatened and a major intervention was necessary. After detailed investigation, the repair method selected was an unusual one: the insertion of four tile ring-beams around the tower. Extensive structural repair was also needed to the flint facing, stone parapet and roof.

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Post-war Conservation in the Balkans and the Reconstruction of Churches in Kosovo David JOHNSON and Emma CARMICHAEL

In 2004, arising from work on the Royal Naval College buildings at Greenwich and other conservation work, David Johnson was invited, along with architects from Greece, Italy and Sweden, to participate in meetings called by the Council of Europe and the European Commission to consider what might loosely be called Pilot Studies for Conservation in eight Balkan countries. Further involvement followed and this report is an account of the progress of this unique cultural and social project.

The Original Colour Scheme at St Paul's, Deptford: Research and Re-creation Ian BRISTOW

A description is given of research work undertaken between 1999 and 2003 into the original scheme of interior decoration at St Paul's Church, Deptford, designed by Thomas Archer in 1713 and completed in 1730. This scheme was carefully re-created in 2003-4. To complete the review, a description of later alterations and redecorations is also given.

St Pancras Station, London: A Case Study in Matching Historic Brickwork

Eleni MAKRI

The station and the former Midland Grand Hotel at St Pancras in London have been at the centre of a major construction and infrastructure programme. This included the insertion of a new Western Ticket Hall for London Underground underneath the raised forecourt of the Grade I listed building. The author was appointed as a specialist advisor to London Underground's project team on the historic brickwork associated with the new ticket hall. Detailed investigation and analysis guided the development of specific manufacturing techniques to achieve the required appearance of the new brickwork with very fine brickwork joints. The new methodology was used on the repair work to the raised forecourt in front of the former hotel.

The Royal Gunpowder Mills, Waltham Abbey, Essex

Clive ENGLAND

The Royal Gunpowder Mills at Waltham Abbey occupy an old and complex site which contains many specialised buildings and structures. At the time of its closure, the site had been in continuous use for the development and manufacture of explosives and related substances for some 350 years. The history of the site could easily provide the material for one article, the relationship of the buildings and processes another and the work on the buildings a third. This article simply attempts to provide a broad overview of all three and to convey something of the unique qualities of the site.

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Beverley Minster: Arresting the Movement in the Walls of the Nave **Sam PRICE**

Nicholas Hawksmoor and George Gilbert Scott both attempted to stop movement in the nave walls of Beverley Minster. Monitoring in the 1990s showed movement to be continuing. The causes were investigated and remedial measures devised and implemented to strengthen the aisle foundations.

Jacobean Joinery: The Panelling of the Long Gallery at Apethorpe Hall, Northamptonshire **Nick HILL**

The comprehensive repair of the 1620s panelling in the Long Gallery at Apethorpe Hall in 2006-7 provided an unusual opportunity for investigation and historical analysis. The details of the joinery construction, typical of work of this period but little studied, are described. Besides proving it is genuine Jacobean work, the study made a number of important discoveries about the history of the panelling. A highly unusual full-size design for the original panelling was revealed on the wall face behind it. The panelling formerly housed a series of full-length portraits, an integral part of the original design. The article concludes with an account of the repair works, one of the largest joinery conservation projects of recent years.

Learning to Love Again: The Power of Affection **Jeremy MUSSON**

Emotional and subjective responses to historic buildings need to be championed, because a statutory system of protection, no matter how admirable, can lead to an over-reliance on objective models, denying them the force of emotional values that have shaped the conservation movement from the start.

Ightham Mote, Kent: Aspects of the Repair and Conservation **Stuart PAGE**

Ightham Mote was bequeathed to the National Trust in 1985. A period of consolidation allowed the house and its immediate surroundings to be opened to the public. In 1989 the Trust appointed Stuart Page Architects to undertake a survey and recommend long-term repairs. The first contract in the conservation and repair project was completed in 1991 and the last in 2005, twenty years after acquisition. The survey and report completed in 1989 identified repairs and suggested a programme that reflected the archaeological development of the house.

Kew Palace Revealed **Jo THWAITES**

Kew palace was closed to visitors over ten years ago in 1996, eventually to reopen in May 2006 after three separate contracts of work to repair, conserve and finally re-present. The first contract to repair the external envelope from 1006 to 1999 was reported in the article by Tony Dyson in *ASCHB Transactions* Volume 27, 2002-03. The second and third contracts completed this programme.

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St Peter's, Northampton: Conservation of the Interior Decoration

Roger SIMONS

St Peter's, Northampton, is generally known as a remarkable Norman church. The East end was rebuilt in 1850-2 by George Gilbert Scott, and the chancel later improved by John Oldrid Scott. Investigations begun in 2003 as a consequence of mould growth in the unheated church revealed that the late 1870s decoration of the east wall by Burlison & Grylls survived under the mid-20th century overpainting, and it has now been exposed and conserved as part of a general redecoration to avoid further mould.

St Mary de Haura, New Shoreham, Sussex: Restoration of the Choir Vault

Richard ANDREWS

St Mary de Haura, New Shoreham, is the finest Transitional church in Sussex, with the rarity of being stone-vaulted. Failure of the chalk webs of the choir vault began to be observed in 1991. In the late 1990s analysis was undertaken, which led to the vaults being renewed in 2003-5 with the aid of an EH/HLF Joint Scheme grant. As part of the work, the Caen stone ribs were poulticed to draw out salts and modest stone replacement was carried out.

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Conservation and Archaeology in Westminster Hall, Palace of Westminster, London

Phillip EMERY and Jacqueline HEATH

Enhancing visitor facilities within ever-tightening security constraints is a key challenge for the Palace of Westminster as it enters the 21st century. As part of a related programme of improvements, Gifford was commissioned in 2005 to diagnose the cause of conspicuous, ongoing settlement to the South Steps and part of the floor of Westminster Hall, and to design and implement a solution to arrest the movement. Engineers and archaeologists collaborated to deliver results that were both robust and sensitive, taking into account the results of carefully integrated geotechnical and archaeological investigations.

Living Buildings: Architectural Conservation through the eyes of Donald Insall

Alasdair GLASS

"Living Buildings" by Donald Insall was published to mark the 50th anniversary of the practice he founded in 1958. Though conceived as a follow-up to his "Care of Old Buildings Today", published in 1972, it actually has a very different purpose. It is the valedictory testament of a lifetime's experience, focussing on what really matters now and always will, rather than the ephemeral trivia which can threaten to overwhelm practical common sense.

The Restoration of Bishop Sherlock's Room, Fulham Palace, London

Clive ENGLAND

Fulham Palace ceased to be the rural seat of the Bishops of London in 1973, after almost 1300 years. The first phase of the Master Plan initiated in 2005-6 included the restoration of Bishop Sherlock's Dining Room of 1750, converted to a kitchen circa 1816 by S P Cockerell and latterly used as a computer room. The restoration of this room raised substantial philosophical issues including those of sustainability.

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Preservation Technology in America: Reflections on UK-US Practice

John FIDLER

The 40th anniversary of the Association for Preservation Technology (the US/Canadian equivalent of ASCHB) in October 2008 prompted a reflection on conservation developments in North America since the reviews published in *Building Early America* (Peterson Ed, 1976). In this paper, the author considers these developments by comparison with UK practice and highlights the technological and other differences and similarities in the field. It concludes with a case study of Frank Lloyd Wright's Ennis House, Hollywood.

Un Tetto di Tegole: the Roof of the Reform Club, London

Paul VONBERG

Why the Reform Club, almost certainly graced for over 160 years with a splendid and unusual slate roof, is now covered with Italian terracotta tiles. This article traces the history of the roof of the Club, the problems inherent in a 'patent slated' roof and the various solutions which were debated before the covering was changed for something completely different. A diversion is taken, exploring the developing relationship between the Club and English Heritage in an earlier project, and the article concludes with a detailed discussion of the various technical issues faced by the architect, the manufacturer and the contractor.

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The Roofs of Kensington Palace, London

Lee PROSSER

Kensington Palace was constructed largely under the aegis of Sir Christopher Wren between 1689 and 1705 with the assistance of Nicholas Hawksmoor as Clerk of Works and Sir John Vanbrugh as Comptroller. Later architects, including Colen Campbell and William Kent added to the complex between 1718 and 1726. Its roofs are all variations of the modern king- or queen-post form, but Kensington differs in many respects from Wren's other commissions by the variety expressed in its roof construction. Over 20 separate roofs survive, but no two are exactly alike.

St Martin-in-the-Fields, London: the Renewal Project

Robert KENNETT

The issues faced by St Martin's were those faced by many churches, how to make a building of great historical significance fit for a variety and intensity of use for which it was never intended, by maximising the potential of the whole site. However, the project was unique in its complexity and its public prominence. This article describes the laborious and ultimately successful achievement of the project objectives.

Auditing the Layers: a Study in Historic Paint-Colour from the Soane Museum

Ian BRISTOW

Using work on the Courtyards and North Kitchen at the Soane Museum as an exemplar, a two-stage approach to the investigation of paint samples is described. The primacy of the first stage, involving the examination of cross-sections under the microscope and their careful correlation, is demonstrated, and particular emphasis placed on lettering of the layers observed, allowing the final report to include an 'audit trail' which can be independently checked. The 'colour evaluation' of selected layers forms a secondary process.

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St John and St Mary Magdalene, Goldthorpe: the Conservation of an Early Concrete Building

Andrew WILES

The Church of St John and St Mary Magdalene, Goldthorpe, South Yorkshire is of historical significance as one of the country's first substantial concrete buildings. In the 85 years since its construction, the polluted mining town atmosphere caused such damage to the fabric that by the 1990s it was almost abandoned. A grant was secured from the Heritage Lottery Fund and repair work began on the concrete in 1999. The project was finally completed and the church rededicated in 2002. The church at Goldthorpe is a possibly unique building and as a result the strategy adopted for repair was equally unusual.

George Smith, Architect, in Hertfordshire

Laura LEVITT

This paper focuses on the work of the architect George Smith (1783-1869) in Hertfordshire, the county of his birth. It outlines the context of the time, particularly the changes in architectural training and practice which had taken place prior to this period. The article makes special reference to some of Smith's known buildings, public and residential, in St Albans and London Colney. These buildings are analysed and explained in the context of their location, Smith's architectural training and the period. Those residential buildings on London Road in St Albans which have been attributed to Smith are especially analysed with the aim of shedding some light on this attribution.

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The Restorations of the East End Chapels of Chichester Cathedral

Colin KERR

The eastern end of Chichester Cathedral incorporates some of the most significant transitional (Romanesque to Gothic) work in the country. The recent completion of the external and internal restoration of the eastern parts brings to a conclusion the repair of the masonry of the building, a campaign commenced under the surveyorship of Robert Potter in the 1960s, and the cleaning/conservation of the interior. The repair of the exterior continued the use of Lepine stone for weatherings and Rlichemont Jaune for general ashlar. Purbeck stone has been used to replace decayed external Ashburton stone which only survived 140 years. The interior of the chapel has been cleaned, redecorated and sensitively reordered by introducing new moveable furniture. The decoration is based on surviving evidence of the medieval scheme.

The Recreation of the Elizabethan Privy Garden at Kenilworth Castle

Richard GRIFFITHS

This article describes the recreation of the Elizabethan garden at Kenilworth Castle and the philosophical, practical and interpretative issues that it raises. Robert Dudley's garden, one of the most magnificent Elizabethan gardens, where he royally entertained Queen Elizabeth in 1575, has been recreated in accordance with the detailed contemporary description contained in a letter by Robert Langham, a gentleman in Dudley's household, and with the advice of a panel of experts.

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Chatham as a Militarised Landscape: Its Conservation and Management

Peter KENDALL

The fortifications and barracks built for the defence of the dockyard at Chatham and the residential quarters of the civilian labour force form a unique, well preserved and underresearched military landscape. By contrast with the dockyard, the military sites face an uncertain future, which this article suggests would benefit from positive management.

Modern Restoration? Case Studies in the Light of English Heritage's Conservation Principles

John NEALE

This paper does not attempt to advance a systematic argument, but simply to make an exploration of "modern restoration" by means of a series of case studies. The examples considered reflect the general sense in which the term "restoration" is used by people to describe their attempts to retrieve what they consider to be a building's historic interest or character, but here they are analysed in the light of Conservation Principles' approach.

Hadlow Tower, Kent: Repair and Reconstruction with Natural Cement

Rena PITSILLI-GRAHAM

This paper gives an overview of a noteworthy project for the rescue of an important historic building and outlines the current proposals for its repair, conservation and reuse. There are three strands to the narrative. The first sets out the importance of the building in terms of English and European social, architectural and constructional history, the second summarises the long battle to save and restore it for posterity, highlighting the key factors and dates, and the third describes the design and technical challenges posed by the building and the brief for repair and reuse, and relates these to the proposed use of natural cement to repair and restore the exterior of the building.

Conventions and Charters: a Shifting Focus

Christopher YOUNG

The number of such documents is very great and they come in a sometimes bewildering range of formats and descriptions – Conventions, Charters, Recommendations, Declarations, Documents, Memoranda. Individually and collectively they can have a considerable effect on how conservation is carried out in individual countries. Some have legal force, others are advisory only but have considerable influence on national theory and practice. Some are produced by International Government Organisations (IGO) which are official bodies at which states are represented by their governments. Others are developed by Non-Governmental Organisations (NGO) whose membership can be drawn from individuals or from national-level NGOs.

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Working with Corinne Bennett at Winchester and Brighton

Gary SEYMOUR, Duncan WILSON and Jill CHANNER

Corinne joined Purcell Miller & Tritton as an Associate in 1968, becoming a Partner in 1972 and moved to Winchester in 1980/81. The three buildings considered here (Winchester Cathedral, Wilton House and Brighton Pavilion) are perhaps those with which her name is most associated, but the value of these essays is the light they show on Corinne as a person and on her working methods. The success of her work at the Royal Pavilion, Brighton led to her appointment for the investigation phase of the Albert Memorial, but she retired and, as

described in the succeeding article, became English Heritage's Cathedrals Architect before the implementation stage of the project.

The First Years of the English Heritage Cathedral Repairs Grant Scheme

Richard HALSEY

ASCHB stalwarts Corinne Bennett (d 10 July 2010) and Harry Fairhurst (d 17 October 2011) were the two architects who ensured that the English Heritage Cathedral Repairs grant scheme secured the support of the cathedral clergy and their architects in its first years. It can now be seen that their work greatly contributed to the 20 years of concentrated effort that has resulted in the current good state of repair of English cathedrals.

Stabilisation of the Eastern Parados Wall at the Theatre of Dionysos, Athens

Eleni MAKRI

The exceptional significance of the Theatre of Dionysos makes this a study of interest in its own right. However this project was an example of processes which to an appropriate degree is applicable to the humblest conservation project. That it is a preserved monument rather than a building in use affects the outcome but not the thought processes. It shows how thorough research of the history of the structure and of previous attempts to conserve it, combined with archaeological investigation, in this case through excavation rather than of a standing structure, and understanding of the method of construction, can inform the diagnosis of the mechanisms of decay, including structural failure. This in turn provides a secure basis for the philosophical and technical appraisal of proposals for conservation.

Leighton House, Kensington: Under Restoration

Dante VANOLI

The project was essentially an interim stage of restoration to preserve the Leighton House Museum, and it remains ongoing. This paper discusses the museum's importance and historical significance and explains why the project was necessary to tackle the building's conservation vulnerabilities and historic presentation shortcomings. It outlines the philosophical and practical approach developed between Purcell Miller Tritton and the curatorial team after the 2006 conservation management plan was carried out, and how that plan guided the restoration strategy and decisions made during the execution of the project.

Conserve as found: The J W Evans Silverware Factory, Birmingham

Nick HILL

The J W Evans silverware factory in Birmingham's Jewellery Quarter, managed by a single family from its foundation in 1881 to its closure in 2008, represents a unique and remarkably complete survival. The factory was the subject of a major rescue project carried out in two phases by English Heritage in 2008-11, and is now an English Heritage property open to the public. The extraordinary atmosphere of the interior encouraged a radical approach to be taken to the rescue work never attempted on this scale previously in the UK. Throughout the programme of major repairs the aim was that the whole of the contents of the building should be preserved in situ and untouched. This paper is offered as a study of the 'conserve as found' approach taken to its logical extreme.

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The Conservation of Wartime Underground Air Raid Shelters

Christopher RAYNER

Air Raid Shelters are a potent reminder of the darker side of life on the Home Front during the First and particularly the Second World Wars. Neglected for a long time and regarded as a homogenous group of undistinguished spaces, these structures are now beginning to be appreciated, just at a time when many are succumbing to both inherent and external pressures. This is a personal view of the challenges that would need to be faced in any attempt to conserve them.

Vault Repairs to the Tomb of Sir Robert Danvers, Christ Church Cathedral, Oxford

Jane KENNEDY

Delicate repairs were carried out to significant cracking in the fan vault of the late 15th century monument. The conservation of stone monuments often involves significant rebuilding. The propensity for monument builders to place in ferrous fixings that will corrode often calls for dismantling to remove them, and there is sometimes the added need for the insertion of vertical and horizontal damp-proof membranes. But for most significant monuments, repair in situ with the least disturbance of ancient material should be the aim of any conservation team.

Planning and Conservation at Kings Cross and St Pancras Station, London, 1987-2012

Robert THORNE

A quarter of a century has passed since the decision to bring the Channel Tunnel Rail Link to King's Cross and it is now fast being forgotten that King's Cross station, not St Pancras, was the initial focus of attention. What happened next was as curious and breathtaking as any episode from the early history of railway building. It was also a reminder that where infrastructure is concerned the niceties of conservation can be overtaken by much stronger influences.

King's Cross London – The Islington Side of the Tracks

Alec FORSHAW

Alec Forshaw started working for the London Borough of Islington in 1975 and was Principal Conservation and Design Officer from 1988 until 2007. Heavily involved with the planning and development of the King's Cross area, this is his personal account of the Islington side of the story. It does not express any official views of the London Borough of Islington.

Inhabiting the Ruin: Works at Astley Castle, Warwickshire

William MANN

Until a fire in 1978, Astley Castle, near Nuneaton, had been continuously inhabited for more than eight centuries. Its growth from a fortified early medieval core is traced out in a series of additions, notably those of the 15th and 17th centuries, giving it a complex, multiple identity. Tasked by the Landmark Trust with the creation of a house that would make the most of the historic remains, much diminished after decades of decay, we determined to retain its ruinous character. In doing so, we faced a delicate balancing act between the raw, scaleless characteristics typical of the ruin and the warm, measured qualities associated with a house.

Conformity or Revolution: Two Model Churches, St George Hanover Square and All Saints Margaret Street, London

Colin KERR

The recent interior conservation and restoration of St George Hanover Square and All Saints Margaret Street provided the stimulus for this study of the background and influences which brought these two most significant churches into being. In adjoining parishes, one is a model church of the Queen Anne 1711 Act, the other of the Ecclesiologists. The architecture of both was radically new, derived from briefs which embraced visions of society as well as being manifestations of theological and liturgical understandings, the outward and visible signs of a "high" understanding of the place of the church in society.

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The Contribution of the Weald & Downland Open Air Museum, Singleton, West Sussex to Building Conservation

Richard HARRIS

The Weald & Downland Open Air Museum opened to visitors 43 years ago in September 1970. It was founded partly as a response to the high rate of destruction of historic buildings in the 1960s, so has always had strong links with the building conservation movement. This article explores some of the parallels between the museum's development and the wider world of building conservation, including ASCHB.

The Listing of Brixton Markets, Lambeth, London

Edmund BIRD

This purpose of this paper is to examine the saga of the listing of the three inter-war market hall arcades in Brixton. They were rejected for listing in 2008 on the grounds that they lacked sufficient historic or architectural significance. Then following an extraordinary campaign by the community, local Councillors and MPs this advice was reversed in two of the three cases. This was greeted locally as only a partial victory but then, after further protest, all three were listed Grade II in 2010, largely by virtue of their cultural significance representing perhaps the most widely known manifestation of the West Indian community in England.

Conservation in Action at the Churches Conservation Trust

Sarah ROBINSON, Peter AIERS and Neil RUSHTON

The Churches Conservation Trust cares for the third largest heritage estate in charitable ownership in the UK, a unique collection of 342 Grade I or II* historic churches. The collection is diverse, ranging from considerable town centre churches such as St Mary's in Shrewsbury and St Thomas's in Bristol through to more modestly proportioned medieval churches in rural settings like as St Mary, Hardington Bampfylde, Somerset and St Thomas, East Shefford, Berkshire

Recognising and Recording Historic Architectural Glass

Jill CHANNER

This article aims to provide a simple and direct means to identify historic plain glazing in buildings by observation and illustrates two practical and pragmatic methods of recording devised by architects during the pre-conservation assessment process.

The Repair and Conservation of the Albert Memorial, Kensington Gardens, London in Retrospect

Alasdair GLASS

This article amplifies for a professional readership the chapters on the repair and conservation of the Albert Memorial in the monograph edited by Chris Brooks published in 2000. The work completed in 1998 was intended for a minimum 60 year return period, provided it was inspected and maintained properly. The quarter-point of the design life is an appropriate moment for a post-post-project review. Some misconceptions require correction and the story needs bringing up to the present day

Managing Change at Old Sarum Airfield, Wiltshire

Hugh FIELDEN

Our work at Old Sarum Airfield started in 2005 with a review of proposals by the local planning authority Salisbury District Council to create a conservation area based on part of the airfield. This expanded into a conservation plan and a draft master plan for the site. Following a public inquiry, the key areas of the master plan have been incorporated into the core policies of the local plan, with a requirement that a detailed management plan be produced.

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Repair and Refurbishment of Harvey Court, Gonville and Caius College, Cambridge

Matthew GOULCHER

Harvey Court is a seminal late 20th century collegiate building. Critics have pointed to the influence of the great Finnish modernist architect Alvar Aalto on the design, which also reinvents the Oxbridge college quadrangle paradigm. It introduces a stepped section which influenced some of the most iconic UK housing schemes of the 1970s and 1980s, such as the Brunswick Centre and the Alexandra Road housing schemes in Camden, as well as other student housing schemes by Denys Lasdun. It was designed within the office of Sir Leslie Martin and Colin St John Wilson with Patrick Hodgkinson, who had spent a year of his architectural studies working for Aalto, as project architect. When completed in 1962 it was a radical departure from conventional student accommodation, but almost 50 years later modernisation of its facilities was overdue.

Work to the Great Hall and New Understanding at Hampton Court Palace

Andrew HARRIS

Ongoing works at Hampton Court Palace have encompassed work in Great Hall Court, the Buttery Roofs, Anne Boleyn Gatehouse, Base Court and Clock Court. The palace presents an evolved chronology of change and repair that challenges archaeological understanding and at times technical resolution alongside difficult aesthetic considerations in the context of immovable programmes. Much has been revealed, but the overriding lesson has been to take nothing for granted.

Reviving Traditional Building Crafts in Shropshire and Transylvania

Colin RICHARDS

This article describes the personal experience of the quest to conserve not only the buildings and landscape of the Welsh Marches area but a way of life and the skills that supported it for countless generations. The objective was to use conservation as the platform for economic regeneration, supporting traditional craftspeople and the production of materials associated

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with their work, so maintaining a relevance and sense of purpose in the 21st century. It was a journey that included an unexpected and major detour into the foothills of the Carpathian Mountains in Romania, which continues to this day.

Iron Bridge, Spanish Town and the Jamaican Conservation Context

Andrew SMITH

The context within which Jamaica's built heritage now stands is fundamentally different to that of the UK. This article is an attempt firstly to outline what I have found out about the context within which I have tried to work, in so far as that is relevant to the built heritage, and then to exemplify that context by looking at a number of buildings, especially the Iron Bridge, Spanish Town.

South Georgia and the Legacy of the Whaling Industry

Michael MORRISON

This sets out to describe the abandoned whaling stations on the Antarctic Island of South Georgia. The scale of the whaling industry and the British involvement in it is something that we, as a nation, have forgotten. South Georgia illustrates the rise and eventual collapse of industrial scale shore-based whaling. The legacy on the island is a number of deserted crumbling industrial sites that are a monument to an industry that has disappeared and is a haunting reminder of the three-quarters of a million whales that were killed and processed here. These whaling stations are arguably potential World Heritage Sites, but they are also a liability for the government of the island.

King's Cross, London: Conservation within an Operational Railway Station

Katherine WATTS

The transformation of King's Cross Station has involved three very different approaches to architecture: conservation, re-use and new build. While the show-piece is clearly the new Concourse at the heart of the development, the overall project is far more complex: an extraordinary, collaborative effort that also encompasses the restoration of the Eastern Range, the Main Train Shed, Suburban Train Shed, the Western Range and the station's iconic façade, as well as the construction of a new platform and subterranean service yard.

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Conservation of Hoxton Hall, Hackney, London

Edmund WILSON

The recent restoration of Hoxton Music Hall has posed a number of complex challenges – in particular how the hall might be used for regular performances with modern lighting and sound installations without losing any of the original fabric and the rough character of a Victorian music hall. It has been a long process that started by looking again at the history of the hall and a challenge in which lost elements of the original building have provided many of the clue.

Conservation of Tecton Buildings at Dudley Zoo, West Midlands

Stuart TAPPIN and David PLATTS

The 12 listed Lubetkin-designed concrete structures at Dudley Zoo, built between 1936 and 1937, are the greatest collection of surviving Tecton buildings in the world and some of the most important Modern Movement buildings in the UK. As time has moved on and zoological practices have changed, some of the Tecton structures have become unused and left to

serve only as monuments. The lack of use has led to poor upkeep and deterioration. All were in a poor condition, mainly due to corrosion of the reinforcement, with works to enhance the structure required in a few locations.

Four of the structures have recently been repaired with help of the Heritage Lottery Fund. A conservation-based approach was adopted, with traditional concrete used for the majority of the repairs and carbon fibre added locally to stiffen a large cantilevered viewing platform. The repair of the structures was the first part of the conservation work and was followed by the reinterpretation of the structures to provide a programme which would sustain their future use. An area of the Bear Ravine is being used for long term testing by Historic England to monitor the performance of the different methods of repair.

Auditing the Colours: Colour Evaluation as Exemplified in the Former Meeting Room of the Royal Society at Somerset House **Ian BRISTOW**

In my article 'Auditing the Layers' in ASCHB Transactions Vol.32, I explained how in the examination of cross-sections under the optical microscope the discipline of lettering layers or groups of layers could focus observation; provide through an audit-trail an internal reassurance of the conclusions reached; and facilitate the clear reporting of these. However, I did no more than touch on the subsequent process of 'colour evaluation', in which the likely original colour of any selected layer is assessed, and in this article now turn to address this matter, which on a complex project of any pretension to historical accuracy I see as a distinct but integral exercise

Sgraffito Conservation at the Henry Cole Wing of the Victoria and Albert Museum **Adrian ATTWOOD and Kimberly RECZEK**

This article describes the work of DBR London Limited to save and protect the decorative plaster sgraffito adorning the Henry Cole Wing of the Victoria and Albert Museum, London. The facade is understood to be the very first Victorian attempt in Britain to revive sgraffito, an essentially Renaissance decorative plaster technique. Part of a much larger cleaning and repair project, the emergency work on the sgraffito was triggered by grave concern for its extremely fragile state, and the impending building works of the new V&A Exhibition Road entrance project. Stonemasons, craftsmen and conservators from DBR teamed up with Ian Constantinides to tackle this urgent and unprecedented conservation project. In addition, a series of panels were selected for careful restoration to re-establish some of its original beauty.

Pre- and Post-industrial Revolution Building Construction and its Conservation **Sherry BATES**

Has the tried truly been tested and what are the lessons? Since 2012, English Heritage (now Historic England) has been revising its Practical Building Conservation series which examines conservation largely according to original building strategy, material and technique. Much research underpinned these books and yet more is being pursued in a fragmentary way across the country. It is therefore timely to consider research into and the development of historic construction methods and materials to see how current conservation practice might be recalibrated in the light of that knowledge. Some of the headwinds set against conservation practice are also forces that are taking the wider construction industry away from sustainable building production, and a better understanding of historic construction methods and materials would be beneficial to both.

Restoration of Bush House and Melbourne House, Aldwych, London John ROBERTSON

The departure of the BBC World Service after 70 years at Bush House left this Grade II listed landmark building in need of a thorough restoration. Designed by the New York firm Helmle & Corbett in the 1920s along big-business classicism lines, the intention of the original American owner Irving T Bush was to provide a unique international trading centre. The article describes how this restoration and modernisation has returned the building to its Bush – Corbett origins, where the Beaux Arts inspired exterior with its opulent architectural detailing and symbolic entablature now provides a grand triumphal conclusion to the Kingsway and a welcome boost to the architectural integrity of the Strand Conservation Area and interior exploration has uncovered a wealth of unique detail.

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The Office: Listing Commercial Buildings 1965–95

Roger BOWDLER

Next to the Church of St Dunstan-in-the-West on Fleet Street is a handsome Jacobean Revival building of 1834 by John Shaw junior. It's an early example of the style, but perhaps more interestingly it is a remarkably early purpose-built office building, erected for the Law Life Assurance Company. During the 19th century the office started to emerge as a distinct building type and by the early 20th century the hearts of England's principal cities were being re-shaped as converted dwellings were replaced with bespoke new premises. This article considers English Heritage's programme of listing commercial buildings in 2013–14, shortly before the organisation became Historic England.

The Edwardian Trade in Architectural Salvage and the Fashion for 'Queen Anne'

Helen ENSOR

The Edwardian period saw the revival of a number of different architectural styles. These have been written about extensively and eruditely, not least in such household texts as *The Edwardian House* by Helen Long and Stefan Muthesius, *Sweetness and Light: the Queen Anne Movement* by Mark Girouard and in a new volume, *Neo-Georgian Architecture 1880–1970: A Reappraisal* edited by Julian Holder and Professor Elizabeth McKellar. However, an aspect of Edwardian revival style which does not seem to have been much written about is the use of imported architectural items from 18th-century buildings in either newly built Edwardian houses or those which received a 'makeover' in the Edwardian period.

Design and Conservation: Two Sides of the Same Coin

Colin KERR

The premise of this article is that design and conservation are not antithetical, indeed that they are two sides of the same coin – but are different sides of the coin being studied by what now seem to be oppositional groups? In schools of architecture, history is now relegated to the fringe, whereas many in conservation see contemporary design as of little worth and seem incapable of bringing critical faculties to bear on buildings old or new.

St Jude-on-the-Hill, Hampstead Garden Suburb: a Lutyens Masterpiece

Margaret DAVIES

When ASCHB held its AGM at St Jude-on-the-Hill (Sir Edwin Lutyens, 1909–1935) in March 2016, the church's parochial church council (PCC) was nervously awaiting a decision on an application for Heritage Lottery Funding for works to repair the church. The funding was also

earmarked to improve provision for all visitors and to create a new learning hub in the lady chapel focussing on the history of Hampstead Garden Suburb. Unfortunately, that application proved unsuccessful, but a new application was submitted to the Heritage Lottery Fund in December 2016. The author was appointed inspecting architect to St Jude-on-the-Hill in 2006 and has carried out two quinquennial inspections since that time. She is also a member of the steering group involved in the preparation of the new application for Heritage Lottery Funding.

The Restoration and Remodelling of 12 Bedford Row, Holborn, London

Eleni MAKRI

This is an account of works of repair, restoration and remodelling carried out initially in 2008 and later in 2011–14, all under the same ownership and patronage. The restoration work sought to achieve exemplary standards and to return the façades of the listed building to their original Georgian finishes and elegance. Internally, works included extensive repairs to historic panelling, which was nurtured back to a healthy state. The underlying principle of all remodelling and refurbishment was to deliver contemporary services and standards in a manner that complemented the historic fabric and layouts. Thus the building's Grade II* listing was never a hindrance to achieving the contemporary and the fashionable, but rather a stimulus for good design.

Conservation of the Iron Bridge, Shropshire 1779–2018

Jacqueline HEATH

The history, construction and conservation of the Iron Bridge, the world's first cast iron bridge, are remarkably well documented and make a broad and fascinating study. Throughout its 240-year life, it seems that each generation caring for the bridge has, perhaps unconsciously, been influenced by the engineering innovations and practices of its time. This has resulted in a chronology of distinct repair approaches and is the context in which the current programme of analysis and conservation should be viewed.

In this current phase, the development of a scheme of conservation works has been based on an understanding of the previous repairs, engineering analysis of the bridge and modern conservation philosophy. The programme comprises repairs to the ironwork, including interventions to cracked radials and repairs to the ends of deck plates (the elements causing most concern) as well as repainting and masonry repairs. Notwithstanding the great deal that is already understood about the bridge, new discoveries and interpretations continue to be made.

Jane Fawcett: Protector of Buildings and Landscapes

Roger FRANCE

On 21 May 2016 Jane Fawcett died aged 95. For some 40 years she was active in the conservation of historic buildings and sites in several ways. The following is an appreciation of her contribution in this realm, taken from an address given by the author at a memorial service on 30 July 2016 at Petersham, London.

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The Chester Historic Town Study and Conservation Action Programme

Sir Donald INSALL

The Chester study, together with the conservation programme it generated, today forms one of the most energetic and positive examples we have of people setting about saving their city. Following its publication in 1968, the study was accepted by the city council as a basis for an active conservation programme and the report's author, Donald Insall Associates, was appointed by the council as consultant. The city centre was designated as one of the newly conceived conservation areas.

Glimpses of Heaven: Analysing England's Conservation Areas

Duncan McCALLUM

This article summarises the current state of knowledge relating to conservation areas in England based on research commissioned and collected by Historic England (English Heritage before April 2015) in the past decade and, in particular, research carried out in the lead-up to the celebration of 50 years of conservation areas in England in 2017. Working with the heritage sector, Historic England has now built up a much clearer picture of conservation areas, who lives in them and the benefits they bring to society. This is essential if society is going to manage them successfully in the future.

Restoration of the Temperate House, Royal Botanic Gardens, Kew

Jessica KENNEDY

The Grade I listed Temperate House is a masterpiece of Victorian engineering situated within the UNESCO world heritage site of the Royal Botanic Gardens, Kew. Constructed between 1860 and 1899 the building is the largest Victorian glasshouse in existence and an example of the pioneering work undertaken by its designer, Decimus Burton (1800-81). Last restored in the late 1970s, the building was suffering from varying degrees of degradation and was struggling to fulfil its role as a temperate environment for the important specimens cultivated by Kew. The Temperate House is currently undergoing a major five-year restoration. This paper addresses the complexities of assessing such a unique structure in a sensitive setting, the conservation approach taken and some of the surprises and challenges encountered along the way.

Aspects of Conservation and Repair Work at the Tower of London, 2005-17

Clive DAWSON and Alexandra ATTELSEY

This article sets out the nature and context of conservation and repair works at the Tower of London which included replacement of the White Tower's 1970s south stair and the Middle Drawbridge, as well as cleaning and repair works to elements of the masonry and roof structures. The work described was carried out as part of a larger and ongoing project at the Tower of London commissioned by Historic Royal Palaces.

Moving and Conserving Sir Edwin Lutyens' Manchester Cenotaph

Stephen LEVRANT

The Grade II* listed war memorial in St Peter's Square, Manchester was built in 1924 to designs by Sir Edwin Lutyens (1869-1944). The original memorial comprised a cenotaph, two flanking obelisks and a 'War Stone'. The cenotaph takes the form of a pylon supporting a catafalque on which lies the figure of an Unknown Soldier. The original setting of the memorial was compromised by the introduction of Metrolink tram infrastructure in the 1990s and other changes to the surrounding cityscape. The following account deals with the

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relocation of the monument ensemble and the design and construction of the new public space in which it sits.

External Repair and Conservation of Banqueting House, Whitehall, 2013-2016

Josephine THWAITES

Banqueting House is a Grade I listed building on Whitehall in central London and the last surviving building of Whitehall Palace. Cared for by Historic Royal Palaces, it is home to a series of internationally significant ceiling paintings by Peter Paul Rubens. This account looks at Phase 1 of the repair and conservation project, carried out in 2013-16, which focussed on the building envelope.

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Refurbishment of the Long Wards at the Royal Hospital Chelsea

Laura MORGANTE

It is a fundamental principle that the best protection for an historic building is to ensure its viable use and the Royal Hospital Chelsea has continued its original purpose (through numerous minor adaptations) for well over 300 years; sheltering retired British Army soldiers since 1692. Peregrine Bryant Architects has been involved with the Royal Hospital from 2006 to this day, overseeing not only the complex adaptation of the Long Wards (2006–2014), but also development throughout the ancillary West Road site.

Restoration of Brompton Cemetery, London

Richard DAVIES

The first of the 'magnificent seven' Victorian burial grounds for Greater London, and now run by the Royal Parks, Brompton Cemetery has recently received a £4 million upgrade generously supported by the Heritage Lottery Fund (HLF). MRDA were the architects for the project which included conservation and repairs to listed monuments, the Colonnades, the Central Chapel and the North Lodge. Additional upgrading has included the creation of a multi-functional facility in the Chapel and extensions to the North Lodge to enable its conversion to a new visitor centre and café. The former police post at the south east entrance is now a modest sales kiosk.

Second Thoughts on Masonry Bridges

Bill HARVEY

Twenty years after Bill Harvey proposed a structural model for masonry viaducts, he started to see damage he could not explain. He says it took a further 15 years to work out why he was wrong, and the battle to correct the error continues. The paper is intended to explain how he got it wrong, what he now thinks and why and how we might move forward from here.

Fulham Palace: The Tudor Courtyard

David HILLS and Louise MARK

The £3.8 million HLF-funded restoration and renewal project at Fulham Palace is the latest phase in a long-term programme of enhancement and improvement for this Grade I listed building, one of London's outstanding Tudor survivals. Works are focused in and around the courtyard to the west of the site and include the refurbishment of commercial spaces and the relocation and enlargement of the museum. Extensive repair works are being undertaken to the Tudor brickwork, challenging conservation orthodoxies through the rediscovery of traditional materials and techniques such as hot-mixed lime mortar and the use of a double-

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struck joint. The project has also offered up some surprising discoveries, including original Tudor daub partitions and striking 17th-century wall paintings.

Fifty Years of Conservation Areas: Their Origins and Development

Graham KING

This article considers the background to the bringing in 50 years ago of legislation to allow conservation areas to be designated by local authorities. The social and legal context of that time is considered alongside the development of the understanding of the architectural and historical importance of various types of places and buildings and their wider cultural appreciation, at a time of significant change in the physical world to meet demands for new housing, employment and forms of transport. The subsequent development of conservation areas has engaged the public and political interest in their processes, which now constitute the context within which conservation areas are lived and worked in and thereby understood.

St Albans Town Hall: The Next Chapter

Laura LEVITT

In her previous article (Volume 32, 2009) Laura Levitt wrote about the architect George Smith in Hertfordshire including a discussion of his designs for St Albans Town Hall. The town hall has since undergone a significant transformation into a new museum, a project the author was involved with as part of her then role as the local conservation officer. This article seeks to discuss the challenges, opportunities and outcomes of the project.

Conservation: Pioneering a Discipline for Architecture

Roger FRANCE

In the United Kingdom the education of professionals in architectural conservation evolved slowly in the 20th century. The results of a detailed inspection of archive records describing the founding of two early, and three later, courses are presented, offering a glimpse of the impediments that faced innovators. While a modernist agenda came to dominate new-build design, the main professional body for architecture exhibited an inability to accommodate the idea that conservation principles and practice were a part of architecture. An appreciative account of the work of contemporary individuals and national amenity societies is presented, giving rise to the following questions: What are the most appropriate organisations to prepare architects for heritage protection in the future? As an academic discipline, should conservation be within existing architectural training or remain extraneous to it?

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The Emmeline Pankhurst Memorial: Unmoved and Upgraded

Hannah PARHAM and Sarah BRIDGER

The memorial to Emmeline Pankhurst was unveiled in London in 1930, and in 1956 it was moved to its present location, still in Victoria Tower Gardens. In 2018, it was proposed to move the memorial again, to Regent's University in The Regent's Park. This article is based on a report commissioned by the Curator's Office at the Palace of Westminster in July 2018 to inform the response of the Parliamentary Art Committee to the planning applications to relocate the memorial, dismissed on appeal. The report was also used to support a successful request to Historic England to upgrade the listing of the memorial.

The Restoration of Soane's Pitzhanger Manor

Judy ALLEN

Sir John Soane designed Pitzhanger Manor as his country house in Ealing, moving in with his family in 1804 and selling in 1810. Over the next 200 years extensions were added and Soane features demolished as ownership moved from private to public and uses changed from country estate to Lending Library and public park. With alterations and municipalisation, the appreciation of Soane's design had been degraded until owners, Ealing Council, in 2010 embarked on a 10-year project to restore and redevelop the Pitzhanger Manor and Walpole Park Estate. Julian Harrap Architects, responsible for the restoration of Soane's Manor, worked with lead consultants Jestico + Whiles, architects for the wider estate redevelopment.

Conserving Stirling's Red Trilogy

Thomas PEARSON

The so-called 'Red Trilogy' is a set of three post-war university buildings in Leicester, Cambridge and Oxford. The first, in Leicester, was designed by James Stirling and James Gowan; the later two by Stirling alone. All three buildings were sensational in the 1960s and retain much of their power today. To many in the architectural community they represent what buildings can and should be: complex and sculptural, visually spectacular and loaded with reference and meaning. However, to their owners and occupants they have proven to be challenging in the extreme. This article outlines design and conservation work carried out by Arup on all three, with different techniques applied in different ways to apparently similar buildings.

Alexandra Palace West Yard Project

Dante VANOLI

In 2015 The Alexandra Park and Palace Trust (APPT)¹ commissioned Purcell to design a new replacement storage building scheme at the famous Victorian landmark in the Borough of Haringey, North London. Alexandra Palace is Grade II listed and on Historic England's Heritage at Risk Register. As part of a strategy to restore derelict and underused spaces, the new facility would be positioned within the Palace's West Yard to help stabilise and regenerate those parts of its historic environment that had fallen into disrepair. Applied to the Palace as a whole, this strategy envisaged its removal from the Heritage at Risk Register. This paper discusses how the project was conceived and planned toward achieving that future objective.

The Royal Academy at 6 Burlington Gardens

Lyall THOW

The 250th anniversary of the foundation of The Royal Academy of Arts was marked by the reopening of the doors of 6 Burlington Gardens after an ambitious project of repair that had been in the making for ten years. The re-awakening of an unloved Victorian building and its interconnection with the RA's old home at Burlington House has significantly improved a number of the principal historic spaces while introducing new contemporary interventions informed by the original architecture. This article focuses on the heritage issues and design solutions developed during the course of the project.

Saving the Façades of the Academy Museum of Motion Pictures, Los Angeles

John FIDLER

This paper describes the technical challenges faced and innovative approaches taken when stabilising and repairing the limestone cladding of the iconic 1939 Streamline Moderne style Saban (May Company) department store building during its conversion to museum use.

Conserving Pugin's St Augustine's Church Ramsgate

Karen BUTTI

Drury McPherson and Thomas Ford & Partners worked together on the repair and restoration of AWN Pugin's house The Grange, and St Augustine's Church and St Edward's Presbytery which he built for the community. This article gives an overview of the work carried out at St Augustine's.

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Regenerating Brackley Town Hall, Northamptonshire

Tom GIBB

The Grade II* listed Town Hall in Brackley, South Northamptonshire constructed in 1704-1706 lies within the Brackley Old Town Conservation Area. Haverstock's brief was to carry out a comprehensive repair and adaptation of the Town Hall to address a range of physical issues and improve its long-term financial sustainability.

The Antiquities of Athens: their Management and Integration with the Modern City

Tasos TANOULAS

Building, and by extension architecture, is by definition a public act. It is a tool in the hands of governments for the promotion and enforcement of their ideologies and the economic models they serve. This is true both in the creation of new architecture within a given human and natural environment as well as in the restoration/ preservation of historic buildings. The Athenian monuments of antiquity are symbols of the identity of the Greek State established in 1830. The study of their management yields interesting insights into how it reflects not only the ideologies prevalent in different times in Europe relating to historic and national matters, but also the efforts of successive governments in Greece to connect their governance with the relics of antiquity and with the Acropolis in particular.

Cuba, Conservation and Utopia

Anna JOYNT

This article is about conservation in a very different context to our own. The international conservation principles may be the same, but the problems and the resources are vastly different. The scale of the Cuban task is staggering, but so is the vision. The results may raise eyebrows in some conservation circles, but there is much to admire.

Recording and Analysis of Timber Framed Vernacular Buildings

Joe THOMPSON

This pair of case studies demonstrates how two timber framed buildings were dismantled, their components analysed for historical evidence, moved and then repaired at the Weald & Downland Living Museum, Singleton, West Sussex, before joining the museum's designated collection. Particular reference is made to understanding the significance of the buildings and to the wealth of evidence on the timbers that was observed, interpreted and recorded during the projects.

Stately Inferno Revisited: Lessons Learnt and Not Learnt

Steve EMERY

Fire represents one of the most damaging threats to our historic environment. A series of high-profile fires in recent years has demonstrated that it regularly inflicts sudden and devastating damage to historic buildings and their contents which are, by their design and

age, irreplaceable and at grave risk. Steve Emery explores the impact of fire, its causes and behaviours, and the tools we have to mitigate it.

Conserving Turner's Sandycombe Lodge, Twickenham

Gary BUTLER

Sandycombe Lodge was not only designed by JMW Turner but was also his rural retreat, his place to relax and therefore must surely be rated very highly. Turner's lodge stood alone in substantial grounds at the edges of two large estates between Twickenham and Richmond Bridge. His town house and studio in Marylebone and Margate have been destroyed and his last residence in what is now Cheyne Walk is in private hands. Sandycombe Lodge, in many ways the most important, has survived.

Aesthetics, Architecture and Architectural Conservation

Colin KERR

An exploration of practical aesthetics with reference to architecture and architectural conservation. "Architecture has never been the art of favour when it comes to aesthetic analysis" – Review of Edward Winters' book *Aesthetics and Architecture*, Continuum, 2007

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The Orangery at Kensington Palace, a Masterpiece of the English Baroque

Lee PROSSER

The Kensington Palace Orangery is a touchstone of English Baroque architecture. One of the few architectural commissions by Queen Anne (1702-14), it holds an important position in architectural history as its authorship has been attributed variously to Sir Christopher Wren, Nicholas Hawksmoor and Sir John Vanbrugh, without ever having been resolved satisfactorily. In the late 19th century it helped inspire the Queen Anne Revival, reflecting an abundance of high quality cut and rubbed decorative brickwork. This paper describes the results of archaeological recording, including tree-ring dating and scientific analysis, which has thrown new light on the building. It reveals the Orangery to be a sophisticated and nuanced example of English Baroque architecture, emphasizing the importance of ephemeral surface treatments in its overall aesthetic conception.

Norwich Castle, a Royal Palace Reborn: Inception, Design and Investigation

Erin DAVIDSON

Norwich Castle is Grade I listed and sited on a scheduled ancient monument within the Civic Character Area of the wider Norwich City Centre Conservation Area. In 2017, Feilden+Mawson was awarded the contract for RIBA Stages 3-6 design and development of the Norwich Castle: Royal Palace Reborn Project. Background research, academic studies, user assessments and peer evaluations shaped the project and defined the designs, vision and final proposals. These were submitted in July 2018 and approved in November 2018, to secure the world class heritage offer and long-term beneficial use of Norwich Castle as a museum and visitor centre, including the British Museum Partnership Gallery of the Medieval Period at first floor level.

In early 2019 it was expected to start on site by that autumn but since then, we have endured the sudden and unexpected passing of Hugh Feilden, Brexit, the re-structuring of the local planning authority, a world health pandemic and material shortages across the construction industry. While all of these have had an impact on the project, none of these exceptional circumstances has tested the design and the aspirations of the project more than the castle itself which only began to reveal its secrets once work started on site.

Because of this extended timetable for the project, it is intended to consider its implementation in a subsequent article in Transactions.

Inclusive Conservation: From Significance to Value(s) in Critical Heritage Practice Kate CLARK

This paper looks back at some of the early thinking about what came to be called 'values-based' practice in built heritage conservation, and how it was received at the time. The paper also sounds a warning about a recent, worrying move away from those more open inclusive approaches to articulating value (in the sense of understanding what matters to people) towards more closed approaches to values-based practice based on discrete classifications of 'significance', determined by experts and fixed at the point of designation. In challenging that retrograde move it reminds us of the need for a 'critical' approach to heritage practice that constantly interrogates questions of what matters, why and to whom in the practices around negotiating change. The paper reminds us of the need to look for the hidden stories that are not being told and to challenge received wisdom about the past rather than blindly ticking boxes marked 'significance'. Above all, it reminds us of the need to question critically the values that shape our own practice.

Beyond Notre Dame: Fire and Limestone Steve EMERY

The inferno at Notre Dame de Paris brought all faiths together around the world to witness the unstoppable spread of fire through the roof of this iconic heritage building. Commentators remarked on how the fire should be fought, from Donald Trump suggesting they should use an aeroplane to dump water on it to the author's comment that it would take a brave fire officer to stop putting water on the flames. This paper describes an ongoing project to understand what effect heat has on the compressive strength of limestone and what this means for the structural stability of English cathedrals when involved in fire and for firefighting tactics.

Barholm Old Hall Dovecote: a Case Study in the Use of Earthen Mortar Peter RAWLINGS

The dovecote at Barholm Old Hall, near Stamford, Lincolnshire is a Grade II* listed building and a scheduled ancient monument. It is a remarkable and well-crafted structure, one of many agricultural buildings in the UK that make a vital but less celebrated contribution to our architectural heritage. Until quite recently the dovecote's future was in jeopardy but thanks to a series of conservation interventions the building has been saved. This article gives a case study of these works and explains how the south wall of the dovecote was repaired in the summer of 2016 with earthen mortar as part of a comprehensive scope of work that included repointing, re-roofing and reconstruction of the flight turrets. Until the 19th century, earthen mortar was widely used as a bedding mortar in buildings of all types in the UK but in recent times has been rarely used in their repair. The article documents the context, assessment, trials and implementation of the works, with a focus on the earthen mortar discussion.

Recollections of a Conservation Architect Alasdair GLASS

Fifty years ago, historic building conservation was ignored by architecture schools and disregarded by the RIBA as not being 'real' architecture. Since then, built heritage conservation has developed from being considered as part of the academic industry through being a part of the tourist industry, to the forefront of the wellbeing industry. It is now in the mainstream of the architectural response to climate change. I was fortunate to be in the right

place at the right time throughout my working life and privileged to be able to contribute to the conservation of an amazing number and variety of historic buildings.

Enslavement, Truth-telling and the Pursuit of Stolen Identities at Good Hope Estate, Jamaica

Ke Vaughn HARDING

This article focuses on interpretation of the lives of enslaved people at Good Hope Estate, one of the many places in Jamaica where built heritage is intrinsically tied to a long history of colonialism and forced labour. Heritage professionals on the island have long conveyed a recognition of the transformative power of appropriating colonial heritage for speaking the truths of hardship, but more importantly of the triumph over it. This is the context through which archaeological and architectural interventions at Good Hope Estate are best understood and the strategies used to interpret this historic site are the key points explored in this article.

No 54a Barnet High Street, London: Discovering an Early Timber-framed Building

Sherry BATES

This paper describes the discovery of a rare, medieval, vernacular, timber-framed commercial building in a town centre within Greater London and the proposals for its sustainable conservation. It relates the chronology of that discovery at a building already listed but misdescribed, its subsequent reassessment and how that impacted upon the conservation proposals.

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31a Grove End Road, St John's Wood: An early 20th-century artist's studio restored

Nick WRIGHT

This is the story of a small but remarkable building. Hidden away behind an early 19th-century villa in the smart London district of St John's Wood, it was designed by a leading architect for a leading sculptor, as a studio. Later the workplace of other artists, including one of the 20th century's greatest conductors, it was remodelled as a home by a married couple, each of them a significant architect of the later 20th century. Now it is being adapted once more, turning its main space back into a studio for its new artist owner. The scheme is bringing the building closer to its original form, and use, but has involved the removal of certain later features that were themselves of significance. This work has added a layer of interest to a building that has architectural, historical and associative value that fully justifies its status as a listed building.

Architectural Conservation: A second generation of UK courses

Roger FRANCE

Establishing an early post-war course in architectural conservation within London University had proved difficult; after two attempts it failed. In contrast, a more open culture elsewhere is shown here as being amenable to architectural conservation as an emerging discipline. At York, the local civic society played an enabling role for conservation studies from the outset and an institute of academic studies and a university followed. At Edinburgh the involvement of local amenity societies provided the rationale for founding a new course through their actions in opposing a ring road proposal. These examples demonstrate the important role that organisations which are external to academia or the professions can play in providing supportive cultures for disciplinary innovations within traditional professional institutions. Differences in the scale of intervention within the realms of architectural and

urban conservation are revealed and the roles of course innovators are described. The period from 1946 to 1996 is considered.

An Adventure in History: How energy availability influenced buildings (and what this tells us about causes of the climate emergency, and therefore its solutions)

Robyn PENDER

The local tradition in building is the crystallisation of local need, material and ingenuity. When the result is so perfect – that is to say, when the adaptation of means to ends is so satisfactory that it has held good for a long time, and that no local need or influence can change it for the better – it becomes a style, and remains fixed until other conditions arise to disturb it.

An Early 17th-century Wall Painting at Old Hatfield, Hertfordshire: Challenges in planning and conservation

Lee PROSSER and Liam PODBURY

The discovery of an almost pristine and well-preserved domestic wall painting at Old Hatfield, Hertfordshire, was significant, but also revealed some challenges arising from the current processes for recording and protecting discoveries in historic buildings, which are increasingly being subdivided and converted to residential use. This paper traces the discovery of the painting, but also examines the process by which decisive action by the conservation officer and co-operation with the developer was underpinned by an astute understanding of historic fabric to ensure that a highly significant discovery was not destroyed.

73 SPAB's Old House Project

Matthew SLOCOMBE

The Old House Project has been a new venture for the Society for the Protection of Ancient Buildings (SPAB). It aims to showcase the SPAB's distinct approach to building conservation, while also providing opportunities for training, research, volunteer participation and community engagement. The project will eventually result in the repair of a Grade II* 'building at risk' and its sale, but the model used is somewhat different to that of a conventional building preservation trust.

86 Causes and Effects of Roof Space Fires

Steve EMERY

When a fire makes itself visible through the roof of a building the probability of successfully extinguishing it becomes very low. The main danger is the collapse of burning roof timbers through the ceiling or vaulting below, which adds to the weight of combustibles on the upper floor. The upper floor is now under threat itself as its boards and joists are ignited and eventually fail, allowing the fire to drop to the floor below. In historic town centres, fire spread from one building to another is usually through the roof spaces, with the inevitable collapse, as was seen at the Eastgate Arch fire, Totnes (1990), the Bridge Street fire, Chester (2001) and the Royal Clarence Hotel, Exeter (2016). This paper looks at various weaknesses and various solutions to reducing the probability of fire starting in roofs and spreading to them from elsewhere in the building.

99 In Tribute to Gordon Sorensen (1959–2023)

Jonathan TAYLOR and Alasdair GLASS

Gordon Sorensen, managing director of Cathedral Communications which published Volumes 33–44 of ASCHB Transactions, passed away on 17 August after a short and

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courageous battle with cancer. His fellow founding director Jonathan Taylor and Transactions co-editor Alasdair Glass have offered the following biographical note
