WEDNESDAY, JUNE 3

REGISTRATION DESK OPEN: 10:00 am

CONGRESS OPENS / WELCOME: 12:30 – 1:00 pm
Room: Adams, 6th floor

KEYNOTE: 1:00 – 2:00 pm
Tom Leslie: Construction History in Chicago: Why We’re Here
Room: Adams, 6th floor

BREAK: 2:00 – 2:30 pm

SESSION Wednesday A: 2:30 – 4:00 pm

W_A_001: Skyscrapers
Chair: Lee E. Gray , University of North Carolina Charlotte, NC
Room: Monroe, 6th floor

___Mary B. Brush, Brush Architects, LLC, Chicago, IL
LESSONS FROM THE RESTORATION OF CHICAGO’S SKYSCRAPERS
___John Zils, Skidmore, Owings & Merrill LLP, Chicago, IL
CONSTRUCTION OF WILLIS (SEARS) TOWER
___Camilo Villate and Brando Tamayo, Universidad de Los Andes. Bogota, Colombia
TECHNICAL INNOVATIONS IN BOGOTA’S MODERN TIMES – THE PAN AMERICAN LIFE INSURANCE BUILDING (1966) CASE STUDY
___Gabriel Pardo Redondo, Old Structures Engineering PC, and Berta de Miguel Alcalá, Vertical Access LLC, New York NY
PERCEPTION OF THE TOWER BUILDING - NEW YORK 1889
___Tyler S. Sprague, University of Washington, Seattle WA
THE RISE OF THE EXTERIOR BEARING WALL, OR “TUBE”, SKYSCRAPER: AN ALTERNATIVE PERSPECTIVE FROM SEATTLE

W_A_002: Gothic Vaulting
Chair: Herman Schlimme, Max Planck Institute for Art History, Rome, Italy

___Rocio Maira Vidal, Universidad Politécnica, Madrid, Spain
THE CONSTRUCTION OF SEXPARTITE VAULTS IN EUROPE
___Richard A. Etlin, University of Maryland, MD
THE “STRENGTH OF VAULTS”
___Ana López-Mozo, Rosa Senent-Dominguez, Miguel Ángel Alonso-Rodríguez, Technical University of Madrid, Spain, José Calvo-López and Pau Natividad-Vivó, Technical University of Cartagena, Spain
ASYMMETRICAL VAULTS IN LATE EUROPEAN GOTHIC: BASEL AND BEBENHAUSEN AS CASE STUDIES
___J.C. Palacios Gonzalo and F. Tellia, ETSAM, Madrid, Spain
INCLINED KEYSTONES IN SPANISH LATE GOTHIC
___P. Fuentes and S. Huerta, Polytechnic University of Madrid, Spain
CROSSED-ARCH VAULTS IN LATE-GOTHIC AND EARLY RENAISSANCE VAULTING: A PROBLEM IN BUILDING TECHNOLOGY TRANSFER

W_A_003: History of Contracting
Chair: Brian Bowen, Georgia Institute of Technology, Atlanta, GA
Room: Hancock, 6th floor

___Marvin J. Levine, Levine Companies, Winnetka, IL
GETTING PAID: HOW U.S. BUILDERS AND GENERAL CONTRACTORS FOUGHT TO GET PAID WHEN DISPUTES AROSE ON THEIR PROJECTS, 1890-1990
___Naoto Tanaka, Kumamoto University Center for Policy Studies, Japan
STUDY ON HISTORY OF COMMUNITY DEVELOPMENT BASED WATER USE IN MINAMIASO, KUMAMOTO
___Liane A. Hancock, Louisiana Tech University, Ruston, LA
TURNER CITY
___Kiomars Nassiri K, University of Illinois at Urbana-Champaign, IL, Pouya Foulad and Mohammad Mehdi Mortaheb, Sharif University of Technology, Tehran, Iran
A SURVEY INTO THE EVOLUTION OF CONSTRUCTION CONTRACTS IN IRAN: TWO 19TH CENTURY CONTRACTS
___Elizabeth Cook, College of William and Mary, Williamsburg, VA
LABOR DISPUTES, PRICE GOUGING, AND ORNAMENTAL ARCHES: NEGOTIATING A NEW BUILDING CULTURE AT THE VIRGINIA STATE PENITENTIARY

W_A_004: Midcentury Modernism
Chair: Bernard Espion, Université Libre de Bruxelles, Belgium
Room: Spire, 6th floor

___Wiepke van Aaken and Andreas W. Putz, Institute of Historic Building Research and Conservation, Zurich, Switzerland
“NOT THE FAULT OF THE MATERIAL, BUT OF OUR ATTITUDE” – INSULATION MATERIALS IN SWITZERLAND FROM 1950 TO 1970
**W_A_005: Masonry Innovations**

Chair: James W. P. Campbell
University of Cambridge, UK
Room: Salon 2, 3rd floor

- Beatrix del Cueto, Pantel, del Cueto & Associates, Guaynabo, Puerto Rico
  
  *PORTLAND CEMENTS IN THE SPANISH CARIBBEAN AS AGENTS OF CHANGE: HYDRAULIC MOSAICS AND CONCRETE BLOCKS*

- Y. Govaerts, A. Verdonck, W. Meulebroeck Vrije Universiteit Brussels and M. de Bouw, Belgian Building Research Institute, Limelette, Belgium
  
  *DEVELOPMENT OF ARTIFICIAL STONE IMITATIONS AT THE TURN OF THE 20TH CENTURY THROUGH PATENT ANALYSIS IN A BELGIAN CONTEXT*

- Maria Luisa Barelli, Politecnico di Torino, Italy
  
  *STOP AND GO. PATHWAYS OF EXPERIMENTATION WITH ARTIFICIAL STONE IN THE WORK OF SERGIO JARETTI AND ELIO LUZI (1955-59)*

**W_A_006: 19th C Bridges**

Chair: Tom F. Peters, Lehigh University, Bethlehem, PA
Room: Adams, 6th floor

- Dario A. Gasparini, Case Western Reserve University, Cleveland, Ohio
  
  *WHISTLER, HOWE AND STONE: THE DESIGN AND CONSTRUCTION OF THE WESTERN RAILROAD'S BRIDGE OVER THE CONNECTICUT RIVER 1840-1841*

- Chiara Tardini, Politecnico di Milano, Italy
  
  *BREMNER RAILWAY BRIDGES: THE DIFFUSION OF HOWE TYPOLOLOGY IN AUSTRIAN EMPIRE*

- Kanokwan Trakulyingcharoen, University of Innsbruck, Austria
  
  *ALFREDO COTTRAU AND IRON LATTICE BRIDGE CONSTRUCTION IN ITALY 1860-1887*

- Andreas Kahlow, University of Applied Sciences, Potsdam, Germany
  
  *BÜTZOW'S WROUGHT IRON LATTICE TRUSS BRIDGE ACROSS THE NEBEL RIVER, 1848: DESIGN, HISTORY, AND RECONSTRUCTION*

**W_B_007: Anti-Seismic Construction**

Chair: Marci Uhlein, University of Illinois at Urbana-Champaign, IL
Room: Salon 2, 3rd floor

- C.F Carocci, University of Catania, Siracusa, Italy and C. Tocci, University of Rome La Sapienza, Italy
  
  *LEARNING FROM THE PAST. ANTI-SEISMIC TECHNIQUES IN THE L’AQUILA POST-1703 RECONSTRUCTION*

- Edoardo Currà, Domenico Liberatore, Cesira Paolini, Elena Pizzoli and Alessandro D’Amico, University of Rome Sapienza, Italy
  
  *HISTORY, DEVELOPMENT AND APPLICATION OF ANTI-SEISMIC TECHNIQUES: THE POST-EARTHQUAKE RECONSTRUCTION OF THE “PIO MONTE DELLA MISERICORDIA” IN ISCHIA*

- R. Morganti, A. Tosone, S. Cocco, and D. Di Donato, University of L’Aquila, Italy
  
  *PATENTS OF ANTI-SEISMIC STRUCTURES IN IRON AND STEEL. 1908, MESSINA EARTHQUAKE – 1957, INTERNATIONAL CLASSIFICATION OF EUROPE COUNCIL*

**W_B_008: Spatial Structures**

Chair: Denis Zastavni, Université Catholique de Louvain, Belgium
Room: Spire, 6th floor

- Ekaterina Nozhova, Institute of Historic Building Research and Conservation, Zürich, Switzerland
  
  *ASSEMBLED WITHOUT SCAFFOLDING: THE CONSTRUCTION OF SCHUKHOV’S TIMBER LATTICE HYPERBOLOIDS*

- Jacob Paskins, University of Cambridge, UK
  
  *CONSTRUCTING THE HOVERPORT: BUILDING HOPE, RAISING FEAR*

- Rafael García García, Universidad Politecnica de Madrid, Spain
  
  *SPATIAL STRUCTURES IN SPAIN 1950 – 1970, FIRST EXPERIENCES BEFORE THE STANDARIZED SYSTEMS*

- Roland Fuhrmann, BTU Cottbus-Senftenberg, Cottbus, Germany
  
  *THE EVOLUTION OF STREAMLINED AIRSHIP HANGARS*

**W_B_009: Timber Trusses**

Chair: Philip Caston, Neubrandenburg University of Applied Sciences, Germany
Room: Adams, 6th floor

- Daniel R. Gleave, John A. Ochsendorf, Massachusetts Institute of Technology, Cambridge, MA and Emory Kemp, West Virginia University, WV
  
  *HISTORY AND TECHNOLOGY OF THE TIMBER STRUCTURES OF LEMUEL CHENOWETH*
Anna Serafini and Cristina González-Longo, University of Strathclyde, Glasgow, Scotland
THE DESIGN AND CONSTRUCTION TECHNIQUES OF EIGHTEENTH CENTURY TIMBER ROOFS IN SCOTLAND: GLASGOW TRADES HALLAND TWEEDDALE HOUSE IN EDINBURGH
Emanuele Zamperini, University of Pavia, Italy
TIMBER TRUSSES IN ITALY: THE PROGRESSIVE PREVAILING OF OPEN-JOINT OVER CLOSED-JOINT TRUSSES
Stefano Lamborghini, Giovanni Mochi, Luca Venturi, and Luca Guardigli, University of Bologna, Bologna, Italy
HISTORIC TIMBER TRUSSES IN EUROPE. THE CASE OF ST. PETER IN BOLOGNA

Emanuele Zamperini, University of Pavia, Italy
TIMBER TRUSSES IN ITALY: THE PROGRESSIVE PREVAILING OF OPEN-JOINT OVER CLOSED-JOINT TRUSSES
Stefano Lamborghini, Giovanni Mochi, Luca Venturi, and Luca Guardigli, University of Bologna, Bologna, Italy
HISTORIC TIMBER TRUSSES IN EUROPE. THE CASE OF ST. PETER IN BOLOGNA

W_B_011: Lighting
Chair: Thomas Leslie, Iowa State University, Ames IA
Room: Water Tower, 6th floor
Giulio Sampaoli, Università della Svizzera italiana (USI – AAM), Mendrisio, Switzerland
ELECTRIC LIGHTING IN THE ARCHITECTURE OF LE CORBUSIER. TOWARDS A HISTORY OF TECHNICAL INSTALLATIONS
Nathalie Simonnot, Graduate School of Architecture of Versailles, France
ARCHITECTURE AND CONSTRUCTION IN ARTIFICIAL LIGHTING US AND FRENCH JOURNALS (1928-1939)
Niklas W. Vigener, Nicholas T. Floyd, and James Jamieson, Simpson Gumpertz & Heger Inc., Waltham, MA
A FLOOD OF LIGHT – THE CASE FOR DAYLIGHT IN AMERICAN PUBLIC ARCHITECTURE
Fausto Barbolini and Luca Guardigli, University of Bologna, Italy
A BRIEF HISTORY OF ACTIVE SYSTEMS IN SOLAR ARCHITECTURE
Eric Monin, LACTH, École Nationale Supérieure d’Architecture et de Paysage de Lille, Villeneuve, France
THE DISCREET EFFICIENCY OF “IN-BILT” PRISMATIC GLASS LIGHTING SYSTEMS

W_B_012: Masonry Construction
Chair: Martin Bachmann, Deutsches Archäologisches Institut, Istanbul, Turkey
Room: Monroe, 6th floor
R. Martin Talaverano, Universidad Politécnica de Madrid, Spain
KNOWLEDGE EXCHANGE FOR THE DESIGN AND CONSTRUCTION OF SURBASED RIBBED VAULTS
C. Jäger-Klein, Vienna University of Technology, G. Radinger, Danube University, Krems, W. Stumpf, FH Burgenland – University of Applied Sciences and G. Styhler-Aydin, Vienna University of Technology, Austria
THE INTERRELATION OF STRUCTURE, NATURAL VENTILATION AND DAYLIGHT INPUT IN THE HISTORIC ARCHITECTURE OF JEDDAH, SAUDI-ARABIA
Caterina F. Caracci, Università degli Studi di Catania, Siracusa, Italy
CONSTRUCTION HISTORY OF THE SYRACUSE’S LYRICAL THEATRE. REMARKS ON THE MASONRY WORK IN A SECOND HALF OF NINETEEN-CENTURY SITE.
Funda Solmaz Şakar, Istanbul Technical University, Turkey and Neriman Şahin Güçhan, Middle East Technical University, Ankara, Turkey
TRADITIONAL STRUCTURAL ELEMENTS IN ÜRGÜP: WALLS AND VAULTS

EVENT
WELCOME RECEPTION: 6:00–7:30 pm
Sixth Floor foyer outside Adams / Monroe rooms
DINE AROUNDS: 7:30 pm
Please sign up at the Registration Desk to join a group table at a local restaurant

THURSDAY, JUNE 4

ANNOUNCEMENTS: 8:30 – 9:00 am

KEYNOTE: 9:00 – 10:00 am
Stella Nair: Master Masons of the High Andes: Tracing Inca and Tiahuanaco Stone Carving Traditions
Room: Adams, 6th floor

BREAK: 10:00 – 10:30 am

SESSION Thursday_A: 10:30 am – 12:00 pm
**Th_A_013: Roman Vaulting**
Chair: Santiago Huerta, Polytechnic University of Madrid, Spain
Room: Salon 2, 3rd floor

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**CONSTRUCTION AS DEPICTED IN WESTERN ART**

A BRIEF INTRODUCTION TO TREAD AND HAND WHEEL CRANES AND HOISTS IN CONSTRUCTION AS DEPICTED IN WESTERN ART

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**Michael Tutton**, Independent researcher, London, UK

CONCRETE BARREL VAULTS REINFORCED WITH STONE VOUSSOIRS ARCHES IN THE WESTERN PROVINCES OF THE ROMAN EMPIRE (MAURETANIA TINGITANA AND BAETICA)

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**C.M. Amici**, Università del Salento, Italy

HIDDEN IRON: HIGH TECH DEVICES IN ROMAN IMPERIAL ARCHITECTURE

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**Lynne C. Lancaster**, Ohio University, Athens, OH

“ARMCHAIR” VOUSSOIR VAULTS IN BATH BUILDINGS OF THE WESTERN ROMAN EMPIRE

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**Alejandra Albuerne** and **Martin S. Williams**, University of Oxford, UK

STRUCTURAL ENGINEERING IN THE HISTORIC STUDY OF ARCHITECTURAL REMAINS: THE BASILICA OF MAXENTIUS: A CASE STUDY

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**C. Hof**, Berlin Institute of Technology (TUB), Germany

BUILDING CONVERSION AS DEMANDING TASK IN LATE ROMAN CONSTRUCTION – ADDING VAULTS TO THE TOWERS OF THE SIXTH CENTURY CITY WALL OF RESAFA, SYRIA

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**Th_A_014: Building the 19th Century**
Chair: Robert Carvais, Université Paris Ouest, Nanterre La Defense, France
Room: Spire, 6th floor

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**Martin Bachmann**, Deutsches Archäologisches Institut - Alman Arkeoloji Enstitüsü, Istanbul, Turkey

THE FINAL ACT IN OTTOMAN TIMBER CONSTRUCTION

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**Barbara Shapiro Comte**, New York University, Paris, France

KING’S FEET TO REPUBLICAN METRES: THE EVOLUTION OF CONSTRUCTION DRAWINGS, PARIS, 1782-1876

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**Emmanuelle Gallo**, Ecole Nationale Supérieure d’Architecture de Paris-Belleville, Paris, France

PARISIAN SWIMMING POOLS OF THE NINETEENTH AND EARLY TWENTIETH CENTURIES, EXAMPLES OF “SUSTAINABLE DEVELOPMENT” AND SAVINGS

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**Yegan Kahya Sayar, Işıl Polat Pekmezci**, Istanbul Technical University, Turkey and Ayşegül Özer, Aristotle University of Thessaloniki, Greece

CONSTRUCTION TECHNIQUES AND BUILDING MATERIALS OF A 19TH CENTURY OFFICIAL STRUCTURE IN ISTANBUL: ADJACENT OFFICES OF OTTOMAN BANK AND THE REGIE COMPANY

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**Th_A_015: Equipment and Elevation**
Chair: Marvin Levine, Levine Companies, Winnetka IL
Room: Water Tower, 6th floor

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**Michael Tutton**, Independent researcher, London, UK

A BRIEF INTRODUCTION TO TREAD AND HAND WHEEL CRANES AND HOISTS IN CONSTRUCTION AS DEPICTED IN WESTERN ART

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**Ilaria Giannetti**, University of Rome Tor Vergata, Italy

THE ITALIAN STORY OF FERDINANDO INNOCENTI’S TUBULAR SCAFFOLDING

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**Jürgen G. Cleemann**, Independent scholar, Brooklyn, NY

EARLY HISTORY OF THE CONCRETE TRANSIT MIXER, 1900-1930

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**Lee E. Gray**, University of North Carolina, Charlotte, NC

LIFT VERSUS ELEVATOR

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**Th_A_016: Building in Earth and Stone**
Chair: Benjamin Ibarra-Sevilla, University of Texas at Austin
Room: Hancock, 6th floor

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**John Barber**, University of Edinburgh, Scotland

CONSTRUCTING DRYSTONE BUILT IRON AGE BROCH TOWERS IN SCOTLAND: INITIATING A CONSTRUCTION HISTORY

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**Mahdi Motamedmanesh** and **Klaus Rücker**, TU Berlin, Institute for Architecture, Germany

FORM FOLLOWS CONSTRUCTION: A TECHNICAL ANALYSIS OF THE ARCH OF CTESIPHON, THE WIDEST EVER BUILT ADobe VAULT

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**Umut Almac** and **Zeynep Ahunbay**, Istanbul Technical University, Turkey

STRUCTURAL ASPECTS OF A 16TH CENTURY OTTOMAN MASONRY BUILDING: SIYAVUSH PASHA MADRASA

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**Ignacio-Javier Gil-Crespo**, Polytechnic University of Madrid, Spain

LATE MEDIEVAL RAMMED EARTH TECHNIQUE IN THE FORTIFICATIONS OF CASTILE, SPAIN

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**Kemal Reha Kava**, Akdeniz University, Antalya, Turkey

STRUCTURAL PATTERNS IN THE HISTORY OF ANATOLIAN COMPOSITE MASONRY

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**Th_A_017: Geometry and Bridges**
Chair: Stephen Buonopane, Bucknell University
Room: Monroe, 6th floor

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**Liu Yan**, Technical University of Munich, Germany

THE INVENTION OF DA VINCI’S WOVEN STRUCTURES

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**Philip S. C. Caston**, Neubrandenburg University of Applied Sciences, Germany

THE AMAZING MATHEMATICAL BRIDGE

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**Tom F. Peters**, Lehigh University, Bethlehem, PA

RELIGIOUS AFFILIATION AND WOODED TRUSS CONSTRUCTION IN THE GERMAN-SPEAKING WORLD

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**Yasuhiro Honda**, Daiichi Institute of Technology, Kirishimashi, Japan and Ichiro Kobayashi, Kumamoto University, Kumamoto City, Japan

COMPARATIVE STUDY ON THE ARCH STRUCTURE OF THE KINTAIKYO BRIDGE AND OCCIDENTAL TIMBER ARCH BRIDGES

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**Th_A_018: Brick History**
Chair: James W. P. Campbell, Queens College, University of Cambridge, UK
Room: Adams, 6th floor

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**Lynne C. Lancaster** and **Jørgen G. Cleemann**, Independent scholar, Brooklyn, NY

EARLY HISTORY OF THE CONCRETE TRANSIT MIXER, 1900-1930

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**Lee E. Gray**, University of North Carolina, Charlotte, NC

LIFT VERSUS ELEVATOR
SESSION: Thursday_B: 1:00 – 2:30 pm

Th_B_019: Health and Comfort in Buildings
Chair: Thomas Leslie, Iowa State University, Ames IA
Room: Salon 2, 3rd floor

_____Andrew Cruse, Ohio State University, Columbus OH
ARE YOU COMFORTABLE NOW? THREE AMERICAN THERMAL COMFORT MODELS
_____Magdalena Daniel, ETH Zürich Institut für Denkmalpflege und Bauforschung, Zurich, Switzerland
CONSTRUCTING HEALTH – THE PURSUIT OF ENGINEERING A “HEALTH-PROMOTING INTERIOR CLIMATE” DURING THE 1830s AND 1840s
_____Stephanie Van de Voorde, Vrije Universiteit Brussels, Belgium
THERMAL INSULATION IN BELGIUM BEFORE THE FIRST OIL CRISIS (1945-1975). A QUESTION OF ECONOMY AND COMFORT?
_____Anke Fritzsch, BTU Cottbus-Senftenberg, Cottbus, Germany
INNOVATION AND RECEPTION: HISTORIC HEATING SYSTEMS IN EUROPEAN MUSEUM ARCHITECTURE OF THE 1ST HALF OF THE 19TH CENTURY

Th_B_020: Geometry and Construction
Chair: Enrique Rabasa – Díaz, Universidad Politécnica de Madrid, Spain
Room: Spire, 6th floor

_____Ralph Ghoche, Barnard College, New York, NY
TOWARDS A PARABOLIC ARCHITECTURE: THE PARABOLA AS POLEMIC IN MID-NINETEENTH-CENTURY FRENCH ARCHITECTURE
_____Javier Giron, Polytechnic University of Madrid, Spain
THE "PARALLEL" AND THE COMPARATIVE METHOD IN JEAN RONDELET TRAÏTRE THÉORIQUE ET PRATIQUE DE L’ART DE BÂTIR

Th_B_021: Timber Innovations
Chair: Philip Caston, Neubrandenburg University of Applied Sciences, Germany
Room: Hancock, 6th floor

_____David Bueche, Hoover Treated Wood Products, Thomson, GA and Brian Bowen, Georgia Institute of Technology, Atlanta, GA
TRESTLE: A PECULIARLY AMERICAN STRUCTURE
_____Paul W.R. Bell, Jampel Davison & Bell, London, UK
19th CENTURY LAMINATED TIMBER ROOFS IN ENGLAND
_____Fritz-Ulrich Buchmann, University of Applied Sciences, Stuttgart, Germany
CARL TUCHSCHERER: 1911-1934 AN INNOVATIVE GERMAN TIMBER CONSTRUCTION COMPANY
_____Mario Rinke, ETH Zurich, Zürich, Switzerland
TERNER & CHOPARD AND THE NEW TIMBER – EARLY DEVELOPMENT AND APPLICATION OF LAMINATED TIMBER IN SWITZERLAND
INVESTIGATION AND RECONSTRUCTION OF A NINETEENTH CENTURY WOODEN FLUME SUSPENDED ON A CLIFF

Th_B_022: 20th C Architecture and Construction
Chair: Lee E. Gray, University of North Carolina Charlotte, NC
Room Monroe, 6th floor

_____Franz Graf, Ecole Polytechnique Fédérale de Lausanne and Università della Svizzera Italiana, Lausanne, Switzerland
_____Ana Rodriguez Garcia, Universidad de Alcalá, Madrid, Spain
THINKING WITH THE EYE, THINKING WITH THE HAND; LOOKING FOR A MODERN CONSTRUCTION BETWEEN INDUSTRY AND CRAFTSMANSHIP: THE UPPER LAWN PAVILION BY ALISON AND PETER SMITHSON 1959-1962
_____Ana Tostões, Instituto Superior Tecnico, Lisbon University, Portugal
LEARNING FROM AN OUTSTANDING PROCESS. THE GULBENKIAN FOUNDATION BUILDINGS (1959-1969)
_____Marisa C. Gomez, University of Wisconsin-Madison, WI
DEFINING MODERN IN POSTWAR AMARILLO: THE SCHELL MUNDAY CO. AND THE 1947
PERMA-STONE PROTEST

Th_B_023: Iron Structures
Chair: Valérie Nègre, Ecole Nationale Supérieure d'Architecture de Paris La Villette
Room: Adams, 6th floor

- Esperanza González-Redondo, University of Alcalá, Madrid, Spain
  FIRST IRON STRUCTURES IN BUILDINGS: A FIREPROOF TRANSITION CASE STUDY IN MADRID
- Elizabeth Shotton, University College Dublin, Ireland
  THE EVOLUTION OF THE IRON TRUSS IN THE WORK OF JOHN RENNIE
- Sergei G. Fedorov, Brandenburgische Technische Universität (BTU) Cottbus, Germany
  EARLY PREFABRICATED IRON-RIBBED DOMES: ST. ISAAC’S CATHEDRAL IN ST. PETERSBURG, RUSSIA, 1838–1841
- Werner Lorenz, and Bernhard Heres, BTU Cottbus-Senftenberg, Cottbus, Germany
  THE DEMIDOV IRONWORKS IN NEVYANSK (URAL MOUNTAINS) – IRON STRUCTURES IN BUILDING FROM THE FIRST HALF OF THE 18TH CENTURY

Th_B_024: Civil Engineering History
Chair: John Ochsendorf, Massachusetts Institute of Technology, Cambridge MA
Room: Water Tower, 6th floor

- Marci S. Uihlein, University of Illinois at Urbana-Champaign, IL
  AMERICAN INSTITUTE OF CONSULTING ENGINEERS AND THE PROFESSIONALIZATION OF THE AMERICAN ENGINEER
- Michael Mark Chrimes, Institution of Civil Engineers, UK
  ARCHITECT OR ENGINEER? PROFESSIONAL IDENTITY IN PUBLIC WORKS IN BRITISH INDIA 1800–1910
- Jonathan Clarke, University of Cambridge, UK
  AMERICAN-TRAINED STRUCTURAL ENGINEERS AND CONTRACTORS IN LONDON, 1895–1910
- Gregory K. Dreicer, Museum of Vancouver, BC, Canada
  HISTORY OF ENGINEERING, REVERSE-ENGINEERED

BREAK: 2:30 – 3:00 pm

SESSION Thursday_C: 3:00 – 4:30 pm

Th_C_025: Military Construction
Chair: Marvin Levine, Levine Companies, Winnetka IL
Room: Hancock, 6th floor

- Michiko Maejima, École Nationale Supérieure d’Architecture de Paris, France
  A STUDY OF MILITARY FACILITY PLANNING FROM THE VIEWPOINT OF TECHNOLOGICAL TRANSFER FROM FRANCE TO JAPAN 1868-1930
- André Guillerme, Conservatoire National des Arts et Métiers, Paris, France
  FIRST TREATY ON THE INDUSTRIALISATION OF BARRACKS (1804-1811)
- Jeffrey L. Beard, Drexel University, Philadelphia, PA
  CONSTRUCTION OF AMERICAN SLIPWAYS AND DRY DOCKS – FAR-REACHING INFLUENCE OF US NAVAL PROCUREMENT FROM GOSPORT #1 (NORFOLK, VA) TO THE SPEARIN DOCTRINE (BROOKLYN, NY)
- Karey L. Draper, University of Cambridge, UK
  BUILDING FOR WAR: EXAMPLES OF TEMPORARY STRUCTURES DESIGNED FOR WARTIME USE IN BRITAIN (1939-1945)

Th_C_026: Metal and Steel
Chair: Bernard Espion, Université Libre de Bruxelles, Brussels, Belgium
Room: Water Tower, 6th floor

- Eberhard Pelke, Hessen Mobil, Roads & Traffic Management, Wiesbaden, Germany
  ON THE EVOLUTION OF STEEL-CONCRETE COMPOSITE CONSTRUCTION
- Stéphane Sire, University of Brest, France, and Jean-François Douroux, RATP, Département Gestion des Infrastructures, Fontenay-sous-Bois, France
  THE ELECTRIC ARC WELDING REINFORCEMENT OF STEEL BRIDGES FROM THE PARIS METRO IN THE 1930S: THE CASE OF THE AUSTERLITZ VIADUCT OVER THE SEINE
- R. Morganti, A. Tosone, D. Franchi and D. Di Donato, University of L’Aquila, Italy
  STEEL CONSTRUCTION FOR A NEW PUBLIC COMPANY. THE RAI EXECUTIVE OFFICES

Th_C_027: Industrial Buildings
Chair: TBA
Room: Adams, 6th floor

- Barbara Berger, Institute for History of Science and Technology, Munich, Germany
  THE GASHOLDER – SHAPED BY ITS FUNCTION. THE ITALIAN EXAMPLE
- Christine Roels, La Cambre Horta de l'Université Libre de Bruxelles, Belgium
  LITERATURE REVIEW ON RURAL ARCHITECTURE IN BELGIUM: IDEAS TO MODERNIZE FARMSTEADS IN ARCHITECTURAL PUBLICATIONS FROM 1847-1884
- Sage M. Roberts and Brian Bowen, Georgia Institute of Technology, Atlanta, GA
  THE AMUNDSEN-SCOTT SOUTH POLE STATION: CONSTRUCTION AT THE END OF THE WORLD
- Laura Balboni and Paolo Corradini, Politecnico di Milano, Italy
  THE CONSTRUCTION OF THE ICE HOUSES IN THE ARISTOCRATIC RESIDENCES IN THE EMILIA COUNTRYSIDE

Th_C_028: Early Americas
Chair: Ivan Myjer, Building and Monument Conservation, Arlington, MA  
Room: Salon 2, 3rd floor

Luis A. Torres-Garibay and Eugenia M. Azevedo-Salomao, Universidad Michoacana de San Nicolás de Hidalgo, Morelia, México  
**PuRePecha Work Organization in Traditional Architecture Production**

E. Ricaud, Sunmetron Architects, Paris, France  
**Pre-Columbian and Early Colonial Adobe Bricks in the United States: A Tool in the Service of Dating Historic Buildings**

Leah McCurdy, The University of Texas at San Antonio, Texas  
**Maya Construction History: Explorations Through Buildings Archaeology and Conservation**

Th_C_029: Concrete Shells  
Chair: Stephen Buonopane, Bucknell University, Lewisburg, PA  
Room: Monroe, 6th floor

Carlo Dusi, Università della Svizzera, Switzerland  
“Roam Home to a Dome”, From Metaphor to the Construction: Dante Bini’s Pneumatic Formwork Thinshelled Reinforced Concrete Domes

Rob Whitehead, Iowa State University, IA  
**Formative Experiences: Saarinen’s Shells and the Evolutionary Impact of Construction Challenges**

Roland May, BTU, Cottbus, Germany  
**Shell Sellers. The International Dissemination of the Zeiss-Dywidag System, 1923–1939**

Th_C_030: Material Fabrication  
Chair: Valérie Nègre, Ecole Nationale Supérieure d’Architecture de Paris La Villette  
Room: Spire, 6th floor

Jennifer Cappeto, Cappeto Conservation LLC, Denver, CO  
**Best Supporting Actor: The History of Metal Lath in America**

Rachel L. Will and Edward A. Gerns, Wiss, Janney Elstner Associates; Chicago, IL  
**Detailing in Transition: Hybrid Walls and the Evolution of Terra Cotta Detailing**

Wendy Andrews, University of Cambridge, UK  
**Innovations in English Wallpaper Materials and Manufacture from 1824 to 1938: Evidence From the Cowtan Order Books**

EVENT  
Construction History Society of America Meeting: 4:30 – 6:00 pm  
This event is open to members of CHSA and those wishing to join CHSA  
Room: Salon 2, 3rd floor

DINE AROUNDs: 7:30 pm  
Please sign up at the Registration Desk to join a group table at a local restaurant

Friday, June 5 - Tours

TOUR #1 - WALK THE LOOP WITH TOM LESLIE  
9:00 am – 12:00 pm  
8:45 am - MEET THE GROUP at Palmer House Street Level Lobby - Monroe Street side (near Freshii)

TOUR #2 - FRANK LLOYD WRIGHT AND OAK PARK  
8:00 am – 4:30 pm  
7:45 am - MEET THE BUS on the street - Wabash Avenue outside Palmer House

TOUR #3 – FERMILAB - THIS TOUR HAS BEEN CANCELLED

TOUR #4 – MIES, IIT AND THE FARNSWORTH HOUSE  
9:00 am – 5:00 pm  
8:45 am - MEET THE BUS on the street - Wabash Avenue outside Palmer House

TOUR #5 – CHICAGO RIVER BRIDGES WITH PATRICK MCBRIARTY  
9:00 am – 4:30 pm  
8:30 am - MEET THE BOAT at Trump Tower Dock On the River North side of the river (lower level) at the intersection of Kinzie and Rush Streets, just west of the Wrigley Building (15 min walk from Palmer House or take cab to Kinzie and Rush St)

TOUR #6 – 150 N. RIVERSIDE CONSTRUCTION TOUR with CHRIS PHARES  
9:00 am – 11:00 am  
8:45 am - MEET THE GROUP at Palmer House Street Level Lobby - Monroe Street side (near Freshii)

TOUR #7 – EXPLORING INDUSTRIAL CHICAGO: THE CALUMET REGION  
NOTE: THIS TOUR IS BEING CONDUCTED THROUGH THE VERNACULAR ARCHITECTURE FOUNDATION CONFERENCE  
PLEASE VISIT VAF WEBSITE TO REGISTER  
http://www.vernaculararchitectureforum.org/event911354/Registration

TOUR #8 – RESTORING CHICAGO’S TERRA COTTA SKYSCRAPERS WITH RACHEL WILL AND MARK KUBERSKI
1:00 – 4:00 pm
12:45 pm - MEET THE GROUP at the Palmer House Street Level Lobby - Monroe Street side (near Freshii)

**EVENT**

**We Built Chicago: 5:00 – 8:00 pm**
Ballroom at the School of the Art Institute of Chicago
112 S. Michigan Avenue, Chicago IL 60603

**Welcome:** Dan McLaughlin, Executive Director, The Builder’s Association of Chicago
**General Comments:** Dave Pepper, Chairman and CEO, The Pepper Companies. (1927)

_____Marvin J. Levine, Levine Companies, Winnetka, IL
BUILDING IN CHICAGO: THE STORY OF BUILDERS AND CONTRACTORS OVER THE LAST 100 YEARS

**Panel Discussion:** Moderated by Mary Brush, Brush Architects
Fred Berglund, President, Berglund Construction (1911)
Martin Ozinga IV, Ozinga Concrete Company (1928)
Bruce Lake, James McHugh Construction Company (1897)
Phil Stupp, Stupp Brothers Inc (1856)

**Summary:** Dave Pepper, Chairman and CEO, The Pepper Companies. (1927)

This event is free and open to the public.
SIICCH would like to thank the Builders Association of Chicago for sponsoring the event and the School of the Art Institute’s Historic Preservation Program for donating space

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**Saturday, June 6**

**ANNOUNCEMENTS: 8:00 – 8:30 am**

**KEYNOTE: 8:30 – 9:30 am**
James W. P. Campbell: Bricks, Books, Cathedrals, Staircases and Libraries
Room: Adams, 6th floor

**BREAK: 9:30 – 10:00 am**

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**SESSION Saturday_A: 10:00 – 11:30 am**

**Sa_A_031: Building the Americas**
Chair: Benjamin Ibarra-Sevilla, University of Texas at Austin, Austin, TX
Room: Salon 2, 3rd floor

_____Roberto Reyes Pérez, Lucia Tello Peón and Pablo A. Chico Ponce de León, Universidad Autónoma de Yucatán, México
THE YUCATECAN HACIENDA: RELATIONS BETWEEN PRODUCTION SYSTEMS, CONSTRUCTION PROCESSES, MATERIALS, AND SETTLEMENTS MORPHOLOGY

_____Neal A. Vogel, Restoric, LLC, Chicago, IL
THE HISTORY AND CONSERVATION OF LEAD SILHOUETTES IN AMERICA

_____Ivan Myjer, Building and Monument Conservation, Arlington, MA
A COMPARISON OF THE CONSTRUCTION TECHNOLOGY OF THREE 18TH CENTURY SPANISH COLONIAL MISSION CHURCHES IN SAN ANTONIO, TEXAS

_____Elizabeth Cook, College of William and Mary, Williamsburg, Virginia
FROM SUSQUEHANNA PINE TO NORTH CAROLINA CYPRESS: REGIONAL LUMBER SUPPLIES IN ANTEBELLUM RICHMOND, VIRGINIA

**Sa_A_032: Codes and Documentation**
Chair: Jeffrey Beard, Drexel University, Philadelphia, PA
Room: Water Tower, 6th floor

_____Sean Weiss, The City College of New York, NY
FROZEN ASSETS: PHOTOGRAPHY, TIME, AND LABOR ON THE CONSTRUCTION SITE

_____Nigel Isaacs, Victoria University of Wellington, New Zealand
WHAT’S HOLDING THE ROOF UP? USING CENSUS DATA TO EXPLORE DWELLING CONSTRUCTION AND STRUCTURE CHANGES

_____J.J. Smallwood, Nelson Mandela Metropolitan University, Port Elizabeth, South Africa
A HISTORICAL REVIEW OF CONSTRUCTION HEALTH AND SAFETY

_____Robert A. Svetz, Syracuse University, NY
ATRIUM (W)HOLES IN THE CODE

**Sa_A_033: Medieval Construction**
Chair: Javier Giron, Polytechnic University of Madrid, Spain
Room: Monroe, 6th floor

_____Michael Tutton, Independent Researcher, London, UK
STAIRCASES IN EARLY EASTERN KEEPS IN ENGLAND c1067 TO c1190 WITH PARTICULAR REFERENCE TO ROCHESTER

_____Marina Anna Laura Mengali, University of Rome La Sapienza, Rome, Italy
THE CONSTRUCTION OF THE FIRST CURTAIN WALL OF VITERBO IN 1095 A.D.: A MODERN EXAMPLE OF STANDARDIZATION AND ORGANIZATION OF A COMPLEX FORTIFICATION WORK

_____Klaus Tragbar, University of Innsbruck, Austria
SA_A_034: Midcentury Construction
Chair: Sergej Fedorov, Brandenburgische Technische Universität (BTU) Cottbus, Germany
Room: Spire, 6th floor

Sarah Melsens and Inge Bertels, Vrije Universiteit Brussels, Belgium
SHAPING INDIA’S CITIES: THE CHANGING ROLE OF STAKEHOLDERS IN CONSTRUCTION SINCE INDEPENDENCE (1947)

Gabriela Campagnol and Stephen Caffey, Texas A&M University, College Station, TX
CONSTRUCTION OF THE MUSEU DE ARTE DE SAO PAULO

Michael Abrahamson, University of Michigan, Ann Arbor, MI

Tiziana Basirico, University of Enna, Kore, Italy
EXPERIMENTAL TECHNOLOGICAL SOLUTIONS IN MIXED STRUCTURE BUILDINGS OF THE ’50s IN SICILY

Francesca Albani, Politecnico di Milano Department of Architecture and Urban Studies, Italy
PREFABRICATION IN ITALY AFTER WORLD WAR II: ZANUSO VERSUS CAMUS

SA_A_035: Construction Professionals
Chair: Brian Bowen, Georgia Institute of Technology, Atlanta, GA
Room: Hancock, 6th floor

Tiziana Campisi and Manfredi Saeli, Politecnico School, University of Palermo, Italy
ARISTOCRATIC PALACES IN THE XVIII CENTURY IN PALERMO THE CONSTRUCTION SITE OF MERENDINO COSTANTINO PALACE

Alexandrina Buchanan, University of Liverpool, UK
CONSTRUCTION IN THE WORK OF ROBERT WILLIS

R. Carvais, Universite Paris Ouest Nanterre La Defense and V. Nègre, Ecole Nationale Superieure d'architecture, Paris, France

PARISIAN SURVEYORS (1690-1792): FOUNDING AN EXPERT CORPS
Hentie Louw, Newcastle University, Newcastle upon Tyne, UK
A QUESTION OF IDENTITY: EVOLVING RELATIONS BETWEEN THE ENGLISH CARPENTERS AND JOINERS FROM THE MID-SIXTEENTH TO THE EARLY-TWENTIETH CENTURY

LUNCH: 11:30 – 1:00 pm
Consult map of nearby lunch spots for suggestions!

SCIENTIFIC COMMITTEE LUNCH: 11:30 am – 1:00 pm
(by invitation)
Room: Adams, 6th floor

SESSION Saturday_B: 1:00 – 2:30 pm

SA_B_036: Infrastructure and Water
Chair: TBA
Room: Water Tower, 6th floor

Daijiro Kitagawa, Ministry of Education, Culture, Sports, Science and Technology, Tokyo, Japan
MODERNIZATION OF JAPANESE NATIONAL ROUTE 1 IN 1920’S AND 1930’S

Agustin Castillo Martinez, Universidad de Granada, Spain
THE TRANSPYRENEAN RAILWAY VIA CANFRANC

Elizabeth Shotton, University College Dublin, Ireland
THE DIVERGENCE OF THE PROFESSIONS: JAMES GANDON, JOHN RENNIE AND THE BUILDING OF THE REVENUE DOCKS

Hermann Schlimme, Max Planck Institute for Art History, Rome, Italy
WESTERN STYLE SPRING FOUNTAINS, PLAYS OF WATER AND HYDRAULIC CONSTRUCTION IN THE YUANMINGYUAN IN BEIJING AND THEIR EUROPEAN MODELS

SA_B_037: Construction Organization
Chair: Brian Bowen, Georgia Institute of Technology, Atlanta, GA
Room: Hancock, 6th floor

Gemma Domènech Casadevall, Catalan Institute of Cultural Heritage Research (ICRPC), Girona, Spain
PROTECTIONISM, CORPORATISM AND ENDOGAMY IN THE BUILDING Guilds OF CATALAN COASTAL CITIES DURING THE MODERN

Maria do Carmo Ribeiro and Arnaldo Sousa Melo, University of Minho, Braga, Portugal
ORGANIZATION OF CONSTRUCTION ACTIVITY IN MEDIEVAL PORTUGAL: A COMPARATIVE APPROACH

M.A. Chamorro Trenado, R. Ripoll Masferrer, Polytechnic School, University of Girona
Sa_B_038: Stadium and Pavilions
Chair: Denis Zastavni, Université Catholique de Louvain, Louvain-la-Neuve, Belgium
Room: Spire, 6th floor

Eberhard Möller, Karlsruhe University of Applied Sciences, Karlsruhe, Germany
INVENTION AND INNOVATION IN STRUCTURAL DESIGN AND CONSTRUCTION – FREI OTTO AND THE MUNICH OLYMPIC STADIUM 1972 – A HISTORICAL CASE STUDY

A. Graciani, University of Sevilla, Spain
BUILDING THE PAVILIONS OF THE UNITED STATES OF AMERICA IN THE IBERIAN-AMERICAN EXPOSITION (SEVILLE, 1929)

William E. Reifsteck II, Design-Build Institute of America, Costa Mesa, CA
TWO MILLION BRICKS IN 160 DAYS: THE CONSTRUCTION OF NOTRE DAME STADIUM IN 1930

BUILDING HARVARD STADIUM: EARLY CONCRETE DESIGN AND CONSTRUCTION

Sa_B_039: 20th C Structural Engineering
Chair: Thomas Leslie, Iowa State University, Ames IA
Room: Salon 2, 3rd floor

T. Iori, and S. Poretti, Università degli Studi di Roma Tor Vergata, Rome, Italy
THE LANGUAGE OF STRUCTURES. THE ITALIAN SCHOOL OF ENGINEERING

Manfred Curbach, Thomas Hänseroth, Falk Hensel, Silke Scheerer and Oliver Steinbock,
Technische Universität Dresden, Germany
GENIUS AND NAZI? WILLY GEHLER (1876–1953) – A GERMAN CIVIL ENGINEER AND PROFESSOR BETWEEN TECHNICAL EXCELLENCE AND POLITICAL ENTANGLEMENTS IN THE 20TH CENTURY

Lukas Ingold and Mario Rinke, ETH Zürich, Switzerland
SERGIO MUSMECI’S SEARCH FOR NEW FORMS OF CONCRETE STRUCTURES

A. Como and L. Smeragliuolo Perrotta, University of Salerno, Italy
IS ARCHITECTURE MOVING TOWARD IMMOVABLE FORMS AND CHARACTERS? AN INVESTIGATION AT THE THEORETICAL LEVEL OF THE THOUGHT OF THE ITALIAN ENGINEER PIER LUIGI NERVI THROUGH TEXTS AND IMAGES

Sa_B_040: Concrete Shells
Chair: Marci Uihlein, University of Illinois at Urbana-Champaign, IL
Room: Monroe, 6th floor

Hernando Vargas Caicedo, Universidad de los Andes, Bogotá and Jorge Galindo Díaz,
Universidad Nacional de Colombia, Manizales, Colombia

Stephen Buonopane, and Mikhail Osanov, Bucknell University, Lewisburg, PA
EVALUATION OF AUGUST KOMENDANT’S STRUCTURAL DESIGN OF THE SHELLS OF THE KIMBELL ART MUSEUM

J. William Plunkett and Caitlin T. Mueller, Massachusetts Institute of Technology, Cambridge, MA
THIN CONCRETE SHELLS AT MIT: KRESGE AUDITORIUM AND THE 1954 CONFERENCE

Tyler S. Sprague, University of Washington, Seattle, WA
SCULPTURE ON A GRAND SCALE: THE STRUCTURAL GEOMETRY OF JACK CHRISTIANSEN’S THIN SHELLS

Sa_B_041: Residential Construction
Chair: Jeffrey Beard, Drexel University, Philadelphia, PA
Room: Salon 2, 3rd floor

Jane Murphy, Ohio State University, Columbus, OH
NORMAN CHERNER AND DIY AFTER WORLD WAR II

Beverly K. Grindstaff, San José State University, San Jose CA
DEMOBILIZATION, CONSTRUCTION, CONVERSION: AMERICAN VETERANS HOUSING IN THE IMMEDIATE POST-WAR ERA

Anna V. Andrzejewski, University of Wisconsin-Madison, Madison, WI
EDUCATING THE POSTWAR BUILDER: COLLEGE PROGRAMS FOR ASPIRING MERCHANT BUILDERS IN THE UNITED STATES, 1945-1965

Jane Murphy, Ohio State University, Columbus, OH
FEDERALLY FUNDED RESEARCH AND THE SMALL HOMES COUNCIL

BREAK: 2:30 – 3:00 pm

SESSION Saturday_C: 3:00 – 4:30 pm

Sa_C_042: Guastavino Vaulting
Chair: Santiago Huerta, Massachusetts Institute of Technology, Cambridge MA
Room: Monroe, 6th floor

Mónica Silva-Contreras, Universidad Iberoamericana, Ciudad de Mexico, Mexico
THE GUASTAVINO SYSTEM IN MEXICO: RESCUING THE UNKNOWN WORK OF A MODERN BUILDER

Jonathan Calman Ellowitz and John A. Ochsendorf, Massachusetts Institute of Technology, Cambridge, MA
CONSTRUCTION AND DEMOLITION HISTORY OF GUASTAVINO VAULTING AT THE
Sa_C_043: Early Concrete
Chair: Don Friedman, Old Structures Engineering, PC, New York, NY
Room: Water Tower, 3rd floor

G. Predari, G. Mochi, and R. Gulli, University of Bologna, Italy
HISTORICAL CONSTRUCTION IN THE 30′S: THE CASE STUDY OF THE FACULTY OF ENGINEERING IN BOLOGNA, ITALY

A. Bellicoso, Università degli Studi dell’Aquila, Italy
THE CASA DEL BALILLA IN L’AQUILA (1929-1931): MOVING TOWARDS AN INDEPENDENT SKELETON IN REINFORCED CONCRETE STRUCTURES

Knut Stegmann, State Conservation Office of Westphalia Lippe, Muenster, Germany
EXPERIMENTAL CULTURES IN EARLY CONCRETE CONSTRUCTION

Sabine Kuban, BTU Cottbus, Germany,
INNOVATION AND STANDSTILL - EARLY APPLICATION AND DEVELOPMENT OF THE “MONIER SYSTEM” IN BERLIN

K. Watanabe and W. Abhichartvorapan Tokai University, Kanagawa, Japan
MIKISHI ABE: JAPANESE PIONEER ENGINEER-ARCHITECT OF REINFORCED CONCRETE IN THE EARLY 20TH CENTURY

Sa_C_044: 20th C Bridges
Chair: Stephen Buonopane, Bucknell University, Lewisburg, PA
Room: Spire, 6th floor

D. Zastavni, Université Catholique de Louvain, Belgium and C. Fivet, Massachusetts Institute of Technology, Cambridge, MA
PURELY GEOMETRICAL CONSIDERATIONS DURING THE DESIGN OF BRIDGES IN THE EARLY 20TH CENTURY – THE CASE OF R. MAILLART

Bernard Espion, Université Libre de Bruxelles, Belgium
THE FOUNDING EVENTS OF PRESTRESSED CONCRETE IN BELGIUM SEEN THROUGH THE BLATON ARCHIVES

Hilal Tuğba Ormecioglu, Akdeniz University, Antalya, Bilge Kucukdogan, Inanna Engineering & Consultancy Ziyabey Cad. and Aslı Er Akan, Ministry of Science, Industry and Technology, Ankara, Turkey
BRIDGING THE GOLDEN HORN: A CHALLENGE OF ENGINEERING, ARCHITECTURE, AND TECHNOLOGY AT THE TURN OF THE CENTURY

Sa_C_045: Iron Construction
Chair: Werner Lorenz, BTU Cottbus-Senftenberg, Cottbus, Germany
Room: Salon 2, 3rd floor

Quentin Collette and Ine Wouters, Vrije Universiteit Brussels, Belgium
UNRAVELING THE DESIGN OF END-OF-THE-19TH-CENTURY RIVETED CONNECTIONS IN BELGIUM

Christoph Hölz, University of Innsbruck, Austria
ART AND INDUSTRY AROUND 1850. THE CIVIL ENGINEER FRANZ JAKOB KREUTER

Abe Yillah Roman Alvarado, Universidad Autonoma Metropolitana- Azcapotzalco (UAM-A), Coyoacan, Mexico
HISTORICAL AND CONSTRUCTIVE ASPECTS OF THE IRON MUNICIPAL PALACE AT ORIZABA IN THE NINETEENTH-CENTURY

Sa_C_046: Cascaras Hispaniolas
Chair: Javier Giron, Polytechnic University of Madrid, Spain
Room: Hancock, 6th floor

J. Antuña, Technical University of Madrid, Spain
GANDÍA CHURCH ROOF SHELL: A SLENDER FOLDED ROOF SHELL BY EDUARDO 3

Mónica Morales-Segura, Universidad de Alcalá, Madrid, Spain
ANALYSIS ON THE ROOF OF THE SANCTUARY OF OUR LADY OF GUADALUPE, IN MADRID (SPAIN). CLARIFICATIONS ON THE PARTICIPATION OF FELIX CANDELA IN THE PROJECT

J. García Muñoz, and F. Magdalena Layos, Universidad Politécnica de Madrid, Spain
EQUILIBRIUM AND PREFABRICATION. PREFABRICATED BRICK VAULTS IN LATIN AMERICA

BREAK: 4:30 – 5:00 pm

KEYNOTE: 5:00 – 6:00 pm
William F. Baker: Frank Lloyd Wright and the Mile High Tower
Room: Adams, 6th floor

WALK TO RECEPTION: 6:00 – 6:30 pm

SICCH RECEPTION: 6:30 – 8:30 pm
Skidmore, Owings & Merrill
224 S. Michigan Avenue, Suite 1000, Chicago IL 60604
Sunday, June 7

ANNOUNCEMENTS:  8:45 – 9:00 am

KEYNOTE:  9:00 – 10:00 am
Santiago Huerta:  Construction History: The Building of a Discipline
Room:  Adams, 6th floor

BREAK:  10:00 – 10:30 am

SESSION Sunday_A:  10:30 am – 12:00 pm

Su_A_047:  Building the Gothic
Chair:  Benjamin Ibarra-Sevilla, University of Texas at Austin, TX
Room:  Adams, 6th floor

Thomas Coomans, University of Leuven, Belgium and Yitao Xu, Peking University, Beijing, China
GOTHIC CHURCHES IN EARLY 20TH-CENTURY CHINA: ADAPTING WESTERN BUILDING TECHNIQUES TO CHINESE CONSTRUCTION TRADITION
Rosa Senent-Dominguez, Ana López-Mozo, Rafael Martín-Talaverano, Carmen Pérez-de-llos-Rios and Enrique Rabasa-Diaz, Technical University of Madrid, Spain
LATE GOTHIC RIBBED VAULTS. BASIS FOR CATALOGING
Marina Šimunić Buršić, University of Zagreb, Croatia
PROBLEMS OF VAULTING THE EASTERN PART OF THE GOTHIC CATHEDRAL OF ZAGREB (CROATIA)
Fabian S. López Ulloa, Universidad Politécnica de Madrid, Spain
THE ARCHAEOLOGICAL DRAWINGS OF G. E. STREET, A RESOURCE FOR UNDERSTANDING SPANISH GOTHIC ARCHITECTURE

Su_A_048:  19th C Iron Construction
Chair:  Werner Lorenz, BTU Cottbus-Senftenberg, Germany
Room:  Spire, 3rd floor

I. Wouters and I. Bertels, Vrije Universiteit Brussels, Belgium
BUILDING WITH BOOKCASES: AN ARCHIVE DEPOT IN IRON (ANTWERP, 1851)
Rachel B. Cruise, University of Sheffield, UK
THE 300 METRE TOWER

Su_A_049:  Teaching Construction
Chair:  Valérie Nègre, Ecole Nationale Supérieure d’Architecture de Paris La Villette
Room:  Hancock, 6th floor

Rafael Hernando de la Cuerda, Universidad de Alcalá, Madrid, Spain
THE EXHIBITION AND INFORMATION CENTRES IN MADRID AND BARCELONA, THE DRIVING FORCE BEHIND MODERN CONSTRUCTION IN SPAIN
Wido J. Quist, Delft University of Technology, The Netherlands
J.A. VAN DER KLOES (1845-1935). A PROFESSIONAL BIOGRAPHY OF THE FIRST DUTCH PROFESSOR IN BUILDING MATERIALS
Antonio Brucculeri, Ecole Nationale Supérieure d’Architecture Paris-Val de Seine, Paris, France
BALANCING ART AND SCIENCE: EMMANUEL BRUNE AND THE TEACHING OF BUILDING CONSTRUCTION AT THE ÉCOLE DES BEAUX-ARTS IN THE EARLY THIRD REPUBLIC
Inge Bertels and Jelena Dobbelts, Vrije Universiteit Brussel, Brussels, Belgium
CATALOGING CONTRACTORS KNOW-HOW. AN ANALYSIS OF LATE NINETEENTH- AND EARLY TWENTIETH-CENTURY LIBRARY CATALOGUES OF BELGIAN INDUSTRIAL SCHOOLS

Su_A_050:  Building Archaeology
Chair:  Javier Giron, Polytechnic University of Madrid, Spain
Room:  Water Tower, 6th floor

Michele Chiuini, Ball State University, Muncie, IN
THE CONSTRUCTION OF THE CHICAGO STOCK EXCHANGE BY ADLER AND SULLIVAN: STRUCTURAL SYSTEM AND TYPOLOGICAL INNOVATION
Petra Urbanova, and Pierre Guibert, Universite de Bordeaux Montaigne, Pessac, France
NEW INSIGHTS INTO THE DATING OF ROMAN AND MEDIEVAL MORTARS BY OPTICALLY STIMULATED LUMINESCENCE [OSL]: COMPARISON OF CASE STUDIES
Donald Friedman, Old Structures Engineering, PC, New York, NY
ABOVE-GROUND ARCHAEOLOGY OF DEMOLISHED BUILDINGS
Ana Teresa Cirigliano Villela and Regina Andrade Tirello, UNICAMP, Campinas-São Paulo, Brazil
ARCHAEOLOGY OF ARCHITECTURE: CONTRIBUTIONS TO THE HISTORY OF BRAZILIAN CONSTRUCTION - REFLECTIONS ON THE APPLICABILITY OF "HARRIS MATRIX"
Anthony Caldwell, University of California, Los Angeles, CA

C. Fivet, Massachusetts Institute of Technology, Cambridge MA; D. Zastavni, Université Catholique de Louvain, Belgium and J. A. Ochsendorf, Massachusetts Institute of Technology, Cambridge, MA
WHAT MAURICE KOECHLIN'S SCIENTIFIC CONTRIBUTION TELLS ABOUT HIS LIFE (1856-1946)
Stephen J. Kelley, BVH Architects, Chicago, IL, Alan O'Brien, National Park Service, St. Louis, MO and Dan M. Worth, BVH Architects, Lincoln, NE
THE OLD COURTHOUSE REVEALS THE ROLE OF ST LOUIS AT THE FOREFRONT OF ARCHITECTURAL CAST IRON IN THE UNITED STATES

9/4/19
Su_A_051: Structural Theory and Construction
Chair: John Ochsendorf, Massachusetts Institute of Technology, Cambridge MA
Room: Monroe, 6th floor

Thierry Ciblac, Ecole Nationale Superieure d’Architecture de Paris La Vilette and
Mathias Fantin, Ecole Nationale Superieure d’Architecture de Paris Malaquais, Paris, France
REDISCOVERING DURAND-CLAYE’S METHOD USING FORCE NETWORK METHOD
IMPLEMENTED FOR CONSTRUCTION HISTORY

Christoph Rauhut, ETH Zurich, Switzerland
BAUPLATZSTATIK – HOW STRUCTURAL THEORY ALTERED AVERAGE BUILDING PROCESSES
AND HOW DAILY ROUTINE INFLUENCED STRUCTURAL ANALYSIS

Isabel Tarrio, Polytechnic University of Madrid, Spain
THE BUTTRESSING SYSTEM IN POL ABRAHAM’S CRITICISM OF VIOLLET-LE-DUC’S THEORIES

François Fleury and Bernard Duprat, National School of Architecture, Lyon, France
ANALYSIS OF AN UNPUBLISHED TREATISE OF AN 18TH CENTURY ENGINEER, ANTOINE
D’ALLEMAN (1679-1760)

Su_A_052: Stereotomy and Geometry
Chair: Richard Etlin, University of Maryland, College Park, MD
Room: Salon 2, 3rd floor

Ricardo García Baño and José Calvo López, Universidad Politécnica de Cartagena, Spain
ABOUT AN EARLY 16TH-CENTURY STONECUTTING MANUSCRIPT IN THE NATIONAL LIBRARY
OF SPAIN AND THE ORIGINS OF MODERN STEREOTOMY

Claudia Calabria, Polytechnic University of Bari, Italy
GEOMETRIC AND CONSTRUCTIVE RATIONALIZATION IN THE MULTIRIBBED VAULT: THE
“NODE” AS A CRITICAL ISSUE

M. R. Nobile and E. Garofalo, Università degli Studi di Palermo, Italy
STEREOTOMY OF THE LATE-MEDIEVAL MEDITERRANEAN. CROSSROADS OF EXPERIMENTAL
DESIGN

CONGRESS WRAP UP: 12:00 – 12:30 pm
Room: Adams, 6th floor

CONGRESS CONCLUDES: 1:00 pm