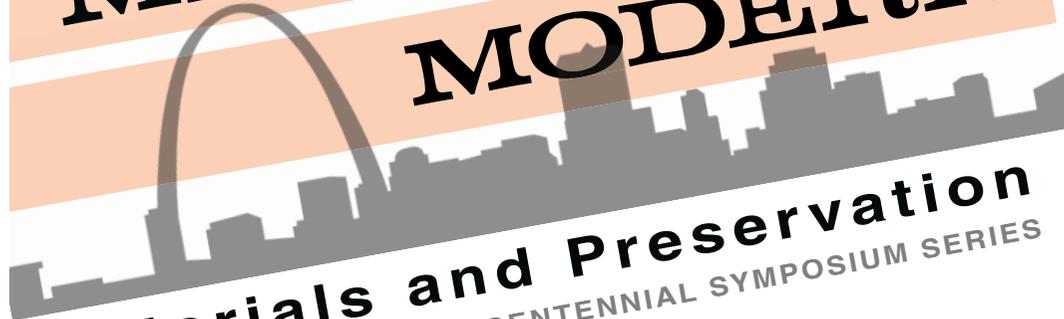


April 13-16, 2015
SAINT LOUIS, MISSOURI

**MIDCENTURY
MODERN**



Materials and Preservation
NATIONAL PARK SERVICE CENTENNIAL SYMPOSIUM SERIES



2016
National Park Service
CENTENNIAL

MIDCENTURY MODERN

MATERIALS & PRESERVATION

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Welcome

Welcome to Mid-Century Modern Materials and Preservation Symposium! This symposium is the first in a series that the National Center for Preservation Technology and Training (NCPTT) is convening in honor of the 100th anniversary of the NPS and the 50th anniversary of the National Historic Preservation Act, and the first that we are holding at a National Park.

The National Center's primary mission is to provide better tools and technology to those preserving the nation's historic treasures. This symposium is designed to address the unique problems of preserving historic structures of the recent past.

Special thanks are due to our organizing partners, Jefferson National Expansion Memorial, AIA St. Louis, Washington University in St. Louis, and the World Monuments Fund, and to our many corporate and private cosponsors, including the Friends of NCPTT.

I trust that you will enjoy the many great presentations that are in store and hope that you will find this to be a truly productive and edifying experience.

Kirk A. Cordell
Executive Director
NCPTT

The Jefferson National Expansion Memorial recently concluded an extensive study on the causes of a mysterious staining on the stainless steel exterior of the iconic Eero Saarinen designed Gateway Arch. The Mid-Century Modern Materials and Preservation Symposium emerged from this study. How can we all better care for our valued MCM structures?

The National Park Service hopes to sponsor similar symposia in the near future on its own Mission 66 building program as well as MCM cultural landscapes. Thanks to all of our great partners for helping us put together this stimulating assembly, I join my colleague Kirk Cordell in wishing you a great symposium.

Thomas Bradley
Superintendent
Jefferson National
Expansion Memorial

Partners



The **National Center for Preservation Technology and Training** is an office of the National Park Service created by Act of Congress in 1992. NCPTT advances the application of science and technology to historic preservation. Working in the fields of archeology, architecture, historic landscapes, and materials conservation, the National Center accomplishes its mission through training, education, research, technology transfer and partnerships.



The **Friends of NCPTT** is a 501(c)(3) incorporated in the State of Louisiana for the purpose of supporting the programs and projects of NCPTT. Since 1994, local and national parties interested in its programs have taken steps to support it. The Friends of NCPTT supports the Center through fundraising and sponsorship of activities.



The **Gateway Arch** reflects St. Louis' role in the Westward Expansion of the United States during the nineteenth century. The park is a memorial to Thomas Jefferson's role in opening the West, to the pioneers who helped shape its history, and to Dred Scott who sued for his freedom in the Old Courthouse.



The **American Institute of Architects St. Louis Chapter Scholarship Fund**. The Scholarship Fund provides grants to students from the metropolitan area who are engaged in the third year and higher at a National Architectural Accrediting Board-accredited School for Architecture. In addition, the AIA St. Louis Scholarship Fund provides support for educational programs that benefit the community such as the Mid Century Modern Symposium and a variety of worthy exhibits and lectures. The fund provides support for the Alberti Program, a program that exposes children in the St. Louis Public Schools to the science and art of architecture.



The **Sam Fox School of Design & Visual Arts** at Washington University in St. Louis is an interdisciplinary and diverse community of architects, artists, and designers dedicated to excellence in learning, creative activity, research, and exhibition. Our unique structure allows us to build on the strengths of each unit—Art, Architecture, and Museum—and to draw on the resources of the University to create new knowledge and address the social and environmental challenges of our time.



The **World Monuments Fund** celebrates its 50th anniversary in 2015 as the leading private, non-profit organization dedicated to preserving the world's architectural heritage. Working with local communities and partners, WMF has completed more than 600 projects in over 100 countries. Through fieldwork, advocacy, education, and training, WMF and its affiliates help preserve important monuments, buildings, and sites around the globe.

Keynote Speaker

MATERIAL MATTERS

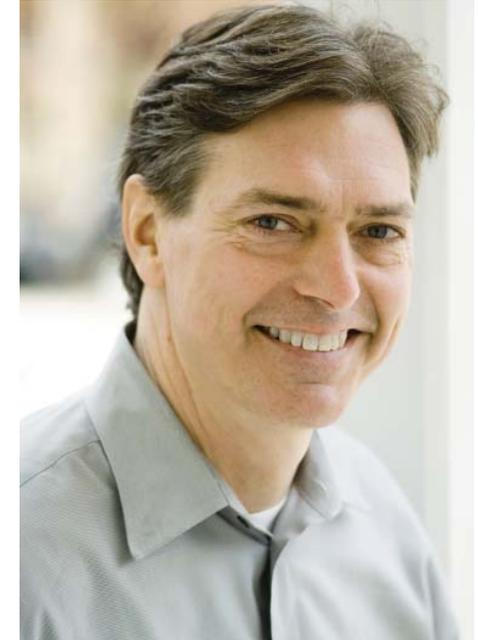
The issue of materiality is central to guiding the treatment that is required in any conservation project. Whether dealing with a centuries old painting, a modern sculpture, an ancient building or a Mid-Century Modern skyscraper, the question of what should be done to the physical fabric is at the core of the decision making process. In the United States, The Secretary of the Interior's Standards for the Treatment of Historic Properties (Standards) were created by the National Park Service almost forty years ago to help government regulators, architects, and building owners to understand what the ground rules for interventions should be. Over time, the Standards have become widely accepted and adopted all across the U.S. as the basic rules of engagement for historic properties. Current conservation philosophy and practice continues to stress the importance of maintaining as much original historic material as possible; and when an intervention does require the replacement of historic fabric it should be as limited as possible and reversible.

With an increasing number of modern buildings entering the cycle of renewal that inevitably comes with age, the question of how to treat their materials has become even more pressing. Modern architecture was by its very nature experimental. Its architects were inventing new ideas about architecture; its form and function, as well as pushing the building industry to develop new technologies for how it could be built. This only intensified over the last half of the 20th Century as completely new ways of making buildings became standardized and eco-

nomonic models of "planned obsolescence" became common. Contemporary architecture has continued these trends and is more experimental than ever.

All of this leads to some perplexing questions that challenge all of us in our work. What can be done with these buildings that are now deemed to be culturally significant but were only designed to last for thirty years? What can be done with a metal curtain wall system that has begun to completely fail? How can a concrete structure be repaired that has wholesale failure of the concrete itself? When an intervention is required that results in the extensive loss of original historic fabric of a modern resource, what happens to its integrity and its authenticity? Can they remain or does the loss of material mean the loss of meaning? Does the need for a significant intervention give license to make fundamental changes to the original design? Do changing expectations of what time means to us as a society demand we change our attitudes towards our cultural heritage? Ultimately, what is it we are trying to preserve and for whom? What will all this mean for the future of our profession?

Gunny Harboe, FAIA, is a registered architect with over 25 years of experience and currently runs his own small firm. He received his M. Arch. from M.I.T., (including study in Copenhagen, Denmark); a M.Sc. in Historic Preservation from Columbia University; and an A.B. in History from Brown University. Harboe gained a national reputation for his award winning restorations of the Rookery Building and Reliance Buildings



and has been the preservation architect for many iconic modern masterpieces including Mies van der Rohe's S.R. Crown Hall and 860-880 Lake Shore Drive Apartments; Frank Lloyd Wright's Robie House, Unity Temple, and Taliesin West, and Louis Sullivan's Carson Pirie Scott & Co. Store. Harboe was named a "2001 Young Architect" by the National AIA, and "Chicagoan of the Year" by Chicago Magazine in 2010. A founding member of DOCOMOMO_US, he was also a Regional Director of AIA National, and President of AIA Chicago, and a founding member and current Vice President of the ICOMOS ISC on 20th Century Heritage. He is also an Adjunct Professor at IIT.

Monday

03:30-05:30p
Pre-registration
Lobby Drury Plaza Hotel

06:15-08:30p
Public Lecture
Whitaker Engineering Building
(Building #125)
Washington University in St. Louis

The Legacy of Eero Saarinen
Susan Saarinen, ASLA,
SaarinenLandscape Architecture

Ken Kolkmeier,
Pittsburgh Des Moines Steel Company & Nooter
Construction, retired

Bob Moore, Ph.D., Historian,
Jefferson National Expansion Memorial, NPS

Tuesday

07:00
Registration

08:15
Introductions and welcome

08:40
The American Zinc Building
Gyo Obata, Founding Partner of HOK

09:00
Keynote address
Gunny Harboe, FAIA, Harboe Architects

10:00
St. Louis' Mid-Century Modern Architecture: The Matter of Materials
Mary Reid Brunstrom, Washington University

10:30
Break

11:00
New Contexts: Preservation Challenges of Modern Era Design
Ann K. Dilcher, AIA, LEED AP BD+C, Quinn Evans Architects

11:30
The Space Age in Construction
Caroline Guay, Conservator & Project Manager, Conservation Solutions, Joseph Sembrat, Executive Vice President, Senior Conservator, Conservation Solutions Justine P. Bello, Tom McDowell, Mark Rabinowitz

12:00p
Lunch

01:30p
The Farnsworth House
Robert Silman, President Emeritus
Robert Silman Structural Engineers and Ashley Wilson, AIA, ASID Graham Gund Architect, National Trust for Historic Preservation

02:00p
Steel Elements at Frank Lloyd Wright's Fallingwater and Solomon R. Guggenheim Museum
Pamela Jerome, AIA, FAPT, LEED AP, Partner, WASA/Studio A

02:30p
The Knapp's Centre: 1930's Art Moderne Icon Reinvented
Bradley R Cambridge, AIA, APA, LEED AP Associate, Quinn Evans Architects

03:00p
Break

03:30p
Material Change: Attenuation to Significance
Christopher Domin, Architect + Associate Professor, University of Arizona

04:00p
Separating Baby from Bathwater: Conflict Resolution in Modern Materials, Systems & Form
Walter Sedovic FAIA LEED, Principal & CEO, Walter Sedovic Architects

04:30p
PANEL DISCUSSION
Preserving the Unloved Modern
moderated by Kirk Cordell, Executive Director of NCPTT

John Sandor, Technical Preservation Services
National Park Service

Claudette Stager, Assistant Director for Federal Programs, Deputy State Historic Preservation Officer, Tennessee Historical Commission

Betsy Bradley, Director, Cultural Resources Office, Planning & Urban Design Agency, St. Louis

Each panelist will provide insights to challenges and successes in engaging the public for preservation of government buildings that may not be appreciated or loved. John Sandor will begin and set the tone for the panel. He will address emotional responses to these buildings and place them in the perspective of popular culture. Claudette Stager will highlight examples of Federal and State buildings in the heart of Nashville that are threatened. She will discuss the efforts to save them. Betsy Bradley will talk about St. Louis buildings such as schools, libraries and recreation centers that were funded by municipal bonds and are now under appreciated. She will address the complex issues of buildings that touch everyday life.

05:30p
End

06:00p to 07:30p
Opening Reception
Pointe 400
400 South 4th Street
St. Louis, MO

Wednesday

08:00
Registration

09:00
Plenary Session: The Gateway Arch
Uncommon Construction, Uncommon Investigation

Stephen J. Kelley, AIA, SE, Heritage Conservation Specialist, and Al O'Bright, Historical Architect, National Park Service

10:00
Gateway Arch Stainless Steel Weld and Surface Discoloration Evaluation

Catherine Houska, TMR Consulting

10:30
Break

11:00
Close-up Investigation of the Visible Stains on the Stainless Steel Skin of the Gateway Arch

Christine Freisinger, David Megerle, and Josh Friedland, Wiss, Janney, Elstner Associates, Inc.

12:00p
Lunch

01:30p
Preserving the Gateway Arch: Evaluating Fire Protection and Life Safety Conditions Using a Performance Based Analysis

Anne Weber, FAIA, FAPT, Partner, Mills + Schnoering Architects, LLC

02:00p
An Engineer's Approach to Forecast the Long-Term Effects of Environmental Thermal Cycles on the Aluminum Works in the Artillery Sheds at the Chinati Foundation

James C. Parker, S.E., P.E. Senior Principal
Simpson, Gumpertz, & Heger

02:30p
No Thermal Break, No Problem: Upgrading Kahn's Stainless Steel Windows in the Richards Building

David N. Fixler, FAIA, LEED AP BD&C
Principal, Design and Preservation, EYP
Architecture & Engineering

03:00p
Break

03:30p
Investigating and Understanding the New York State Pavilion's Tent of Tomorrow and Observation Towers

Nancy Hudson, Associate, Robert Silman Associates, and Evan Kopelson, Partner, Vertical Access LLC

04:00p
Fiberglass Reinforced Plastic at the Fair

Mary Jablonski, Principal and Conservator, Jablonski Building Conservation, Inc.
Adjunct Associate Professor, GSAPP, Columbia University

04:30p
POSTER SESSION

06:00p
End

Thursday

09:00
Plenary Session
Modernism at Risk
David E. Bright, Senior Vice President, Communications, Knoll, Inc.

10:00
Identifying the 1950s Ranch House Interior as a Cultural Resource

Laura Kviklys, Program Coordinator, University of Georgia, College of Environment and Design

10:30
Break

11:00
Mid-Century Commercial Modernism: Design and Materials

Carol J. Dyson, AIA, Chief Architect and Tax Incentives Coordinator, Illinois Historic Preservation Agency

11:30
Low, Light and Livable: From Modern to Ranch in Arkansas, 1945-1970

Holly Hope, Special Projects Historian, Arkansas Historic Preservation Program, Department of Arkansas Heritage

12:00p
Lunch

01:30p
Form Concrete: Establishing Common Ground

Amanda Burke, Historic Preservation Specialist, Missouri State Historic Preservation Office

02:00p
Material, Building Type or Beauty -- What makes Preserving Brutalist Architecture in Buffalo So Hard?

Barbara A. Campagna, FAIA, LEED AP BD+C
Assistant Professor, Acting Chair Sustainable Interior Environments FIT, State University of New York

02:30p
Structural and Material Evaluation of Thin Shell Concrete (Hyperbolic Paraboloid) Structures in the Pacific Northwest

Tyler S. Sprague, Assistant Professor, Department of Architecture, Adjunct Assistant Professor, Department of Civil and Environmental Engineering
University of Washington

03:00p-06:30p
Modern in Saint Louis Tour

John C. Guenther, FAIA, LEED AP
and Andrew Ramist, AIA, Washington University

The tour highlights significant Mid-Century Modern buildings by outstanding architects of the period for a variety of project types including commercial, residential and religious structures located around the St. Louis metropolitan area.

We'll visit an immaculately restored Usonian house by Frank Lloyd Wright (exterior tour) and a thinshell, parabolic folded-plate concrete church designed by Gyo Obata, FAIA (HOK). We will then drive by a meeting house for the non-denominational Ethical Society by local modernist Harris Armstrong, FAIA, the B'nai Amoona Synagogue (now COCA) by legendary modernist architect Erich Mendelsohn and to structures by local modernist leader Isadore Shank framing the early and high period of MCM architecture.

06:30p Event Ends

Sponsors

AIA St. Louis

Knoll



Wiss, Janney, Elstner Associates, Inc.

M+S^a

Mills + Schnoering Architects, LLC
Architecture + Historic Preservation



AIA St. Louis Scholarship Fund

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Pointe 400 Luxury Apartment
Homes

Wiss, Janney, Elstner Associates

Mills + Schnoering Architects

Modern STL

Rosin Preservation, LLC

Transportation

Buses are available for the public lecture and the guided tour. Pick-up and drop-off will be at the bus lot for the Old Cathedral Museum. (see map, page 12.)

Public Lecture Transportation

Departs Monday, April 13, 05:45p/returns at 09:00p
Buses will be available for transport to the public lecture at Washington University.

Guided Tour Transportation

Departs Thursday, April 16, 03:00p/returns at 06:30p

Parking

Hotel Guest Parking

\$16.00 per car, per night, for overnight guests only.

Symposium Guest Parking

Non-overnight guests will be asked to park in the Stadium East public parking garage, located just south of the hotel on 4th Street, at the daily rate, payable at the garage. Please note that Stadium East public parking garage is not affiliated with Drury Hotels. All Local Meeting Attendees must park at Stadium East (see map, page 12).

Education Credits



CEU's are being offered for lecture series by the American Institute for Architects. Up to 16.5 hours of credits are available to participants.

Dining

Italian

Caleco's, Chestnut & Broadway, 11am-3am, 314/421-0708

Charlie Gittos, 9th & Olive, 11am- 10pm, 314/436-2828

Old Spaghetti Factory, Laclede's Landing on 1st, M-Th. 11am-10pm, 314/621-0276

American

Three Sixty Rooftop inside the Hilton, located off Broadway, 4pm-1am
400 Olive in the Hilton on 4th St, 11am-10pm 314/554-7098

TGI Fridays, 529 Chestnut, 11am-10pm, 314/241-8443

Budweiser Brew House, Ballpark Village, Sun-Th 11am-10pm; F-Sat 11am-3am, 314/241-5575

Cardinal Nation, Ballpark Village, 11am-12am, 345-9880

Fox Sports Midwest Live, Ballpark Village, Sun-Th 11am-2am; F-Sat 11am-3am, 314/241-5588

Seafood

Landry's Seafood, Union station, 11am- 10pm, 231-4040

Mike Shannon's Steak & Seafood, 7th & Market, 11am-11pm, 421-1540

Drunken Fish, Ballpark Village, Sun-Mon 11am-10pm; Tu-Th 11am-11pm; F-Sat 11am-3am, 314/899-0500

Steaks

Jakes Steaks, Laclede's Landing 2nd St., 11:30am-10pm, 314/621-8184

Ruth's Chris Steak House inside the Hyatt, 4th & Chestnut 4pm-11pm, 314/259-3200

Chinese

Bamboo Bistro, 214 N. 4th St., 11am-9:30pm, 314/241-8884

Jazz/Blues

Broadway Oyster Bar, 736 S Broadway, 11am- 2am, 314/621-8811

Venue



Drury Plaza at the Arch

2 South Fourth Street
St. Louis, MO, 63102

P: 314-231-3003

F: 1-877-231-7938

Fourth Floor Ballroom

Map

