



**ADC50  
2017**

*The National Academies of*  
SCIENCES • ENGINEERING • MEDICINE



TRANSPORTATION RESEARCH BOARD

**ADC 50  
MID-YEAR MEETING  
MINNEAPOLIS, MN  
JULY 16-19, 2017  
PROGRAM**

## SCHEDULE AT A GLANCE

<b>Sunday July 16, 2017</b>	
2:00 - 3:30pm	Committee Meeting: Aloft Hotel - Tactic A
3:30 - 5:00pm	Research Needs: Aloft Hotel - Tactic A
6:00 - 8:00pm	Reception: Aloft Hotel - Tactic A
<b>Monday July 17, 2017</b>	
7:30 - 8:30am	Breakfast
8:30 - 9:00am	Welcome Session
9:00 - 10:30am	Session 1 - Archaeology Predictive Modeling: A State and a Commonwealth Walk Into an Isobar (Open Book Room)
	Session 2 - NCHRP Program Update, Ongoing Studies, and Section 106 Rail Exemption (Target Performance Room)
BREAK	
10:45am - 12:15pm	Session 1 - On the Road Again: Challenges and Lessons in Evaluating and Managing Historic Roads (Target Performance Room)
	Session 2 - Technology and Cultural Resources (Open Book Room)
12:15 - 1:30pm	Lunch
1:30 - 3:30pm	Session 1 - DOT/SHPO Peer Exchange (Target Performance Room)
5:00 - 9:00pm	Dinner (with tour of Swedish Institute)
<b>Tuesday July 18, 2017</b>	
7:30 - 8:30am	Breakfast
8:30 - 10:30am	Session 1 - Best Practices and Latest Tools for Effective Communication and Consultation with Tribes (Target Performance Room)
	Session 2 - Ten Years On: Assessing the Usefulness of the Statewide Railroad MPDF, Expanding Property Types and Criteria C and D Requirements, and Observations on Project Effects to Railroad Corridors (Open Book Room)
BREAK	
10:45am - 12:15pm	Session 1 - Documenting the Marginalia (Open Book Room)
	Session 2 - Historic Bridges (Target Performance Room)
12:15 - 1:30pm	Lunch
1:30 - 3:00pm	Session 1 - Beyond the Road: The Benefits of Programmatic Outreach (Open Book Room)
	Session 2 - Modern Resources (Target Performance Room)
3:15 - 4:45pm	Mill City Museum Tour
<b>Wednesday July 19, 2017</b>	
7:30 - 8:45am	Breakfast
9:00am - 4:00pm	TOUR

## Sunday July 16:

2:00pm-3:30pm – Committee Meetings: Aloft Hotel - Tactic A

3:30pm-5:00pm – Research: Aloft Hotel - Tactic A

6:00pm-8:00pm – Reception: Aloft Hotel - Tactic A

**All of the Breakfasts and Sessions for Monday and Tuesday will be held at Open Book which is located at 1101 S. Washington Ave. (one block away from the hotel).**

## Monday July 17:

7:30am-8:30am – Continental Breakfast: Open Book Room

8:30am-9:00am – Welcome Session: Target Performance Room

9:00am-10:30am

**Session 1 – Open Book Room:**

### **Predictive Archaeological Modeling: A State and a Commonwealth Walk Into an Isobar**

Archaeological predictive models are powerful tools for cultural resource preservation and are accepted as a good faith effort for locating archaeological sites in Section 106 reviews. MnDOT has more than 20 years' experience with predictive modeling, having begun developing our statewide archaeological predictive model, MnModel in 1995. Pennsylvania has developed project-specific predictive models for large projects, but has only recently developed a statewide model.

In this session, we will explain how to get started, the basic flow of a modeling project and requirements for data, software, and staffing. We will distinguish between basic requirements and enhancements. We will also discuss our plans for incorporating tribal consultation and ethnography into the interpretation and refinement of our models. We will share our ideas for implementing the model. Finally, we will tout the benefits of predictive models and associated data for Section 106 reviews.

**Moderator:** Linda Pate - MnDOT

**Speakers:** Elizabeth Hobbs - MnDOT  
Michael Bergervoet - MnDOT  
Teresa Martin - MnDOT  
Ira Beckerman - PennDOT  
Christine Kula - PennDOT

**Session 2 – Target Performance Room:**

### **NCHRP Program Update, Ongoing Studies, and Section 106 Rail Exemption**

This session will provide a status update on the National Cooperative Highway Research Program (NCHRP) pertaining to ongoing and future research on historic preservation topics. In addition, preliminary results of two research tasks being conducted for NCHRP 25-25 will be presented including "Historic Roads: A Synthesis of Identification and

Evaluation Practices” (Task 97) and a “Practical Guide for Developing Effective Scopes of Work for the Geophysical Investigation of Cemeteries” (Task 98). Finally, an update will be provided on the proposed USDOT Section 106 exemption for rail rights-of-way, a requirement of the Fixing America’s Surface Transportation (FAST) Act of national scope.

**Moderator:** Tony Opperman - Virginia DOT

**Speakers:** Robbie Jones - New South  
Shawn Patch - New South  
Sharyn LaCombe - Federal Transit Administration

**10:30am-10:45am – Break**

**10:45am-12:15pm**

**Session 1 – Target Performance Room:**

**On The Road Again: Challenges and Lessons in Evaluating and Managing Historic Roads**

There are nearly 3.9 million miles of non-interstate roads across the country. How much of this road system can be historic? How does a state department of transportation understand if the roads are significant and eligible resources under Section 106 of the National Historic Preservation Act (Section 106)? This session will explore the approaches a number of states have used to identify, evaluate, and manage historic road corridors. Using case studies from east to west this session will describe the approaches and tools used by various DOTs in their evaluation and management of historic roads. We will demonstrate how the results of these projects will assist cultural resource professionals and transportation engineers by streamlining the identification and evaluation of historic roads.

Short presentations will highlight the following efforts:

- Oklahoma DOT's initiative to manage historic Route 66, including creative and interactive mitigation measures.
- Georgia DOT's work to document and evaluate the Dixie Highway.
- Minnesota DOT's multi-phase effort to programmatically evaluate the Trunk Highway system through the application of a resource-specific evaluation criteria.
- Colorado DOT's methodology to streamline the identification of significance for the state's highways using a Multiple Property Document.
- Alaska DOT's Programmatic Agreement resulting in a historic context and evaluation criteria, and application to select highways.

**Moderator:** Renée Hutter Barnes - MnDOT

**Speakers:** Terri Lotti - GDOT  
Lisa Schoch - CDOT  
Christina Slattery - Mead & Hunt  
Scott Sundermeyer - Oklahoma DOT

## Session 2 – Open Book Room:

### **Technology and Cultural Resources**

This session will explore the intersection of Technology and Cultural Resources through the use of new and innovative technology. Three speakers will showcase innovative work being done across the country:

Curtis Hudak, Ph.D. P.G., from Amec Foster Wheeler will be discussing the use of predictive and sensitivity models along Transportation Corridors. Dr. Hudak will be illustrating the cost-benefit statistics for the use of these models as evidenced through recent projects including work completed on a 600-mile energy transportation corridor in the upper Midwest and a utility transportation corridor in Iowa.

Henry Ward, Senior Supervising Archaeology and Cultural Resource Manager with WSP USA, will be presenting work completed at the Virginia Avenue Tunnel Replacement Project in Washington DC that utilized Gigapan Photographic Technology. This advanced photographic technology was instrumental in revealing mineralogical details of the historic paving materials, including some unusual imported pavers manufactured from furnace slag. The presentation also will explore the potential of this advanced photographic technology to assist in a wide range of other archaeological and historic architectural investigations.

Bruce Jensen, Director, Cultural Resource Manager, TxDOT, will be discussing the application of Computed Tomography (CT) Scan Data on Archaeological Studies. For years, archaeologists have explored the use of technologies such as magnetometry and ground penetrating radar that can provide a glimpse of the structure of archaeological sites before they are excavated. Although it requires a physical sample of site matrix to be collected, Computed Tomography (CT) provides a unique opportunity to visualize the arrangement of artifacts, matrix, and voids within a curated sample at a far higher resolution than geophysical methods provide.

**Moderator:** Bruce Jensen - TxDOT

**Speakers:** Curtis M. Hudak - Amec Foster Wheeler  
Henry Ward - WSP USA

## 12:15pm-1:30pm – Lunch

## 1:30pm-3:30pm

### Session 1 – Target Performance Room:

#### **SHRP2 Peer Exchange: Section 106 Programmatic Agreements - What Works/What Doesn't/Lessons Learned**

The Peer Exchange will consist of panel members from State Department of Transportations (DOT), the Federal Highway Administration (FHWA), and State Historic Preservation Offices (SHPO). This Peer Exchange will culminate in a facilitated panel discussion addressing, in depth, the relationship-building between State DOTs, SHPOs, and FHWA developing and implementing Programmatic Agreements for Section 106 compliance of the National Historic Preservation Act to ensure predictable, expedited project delivery that saves time and money.

**Moderators:** David Clarke - FHWA  
MaryAnn Naber - Advisory Council on Historic Preservation  
Sarah Stokely - Advisory Council on Historic Preservation

**Panelists:** Sarah Beimers - Minnesota State Historic Preservation Office  
Heidi Krofft - DelDOT  
Rachel Leibowitz - Illinois Historic Preservation Agency  
Craig Lukezic - Delaware Division of Historical & Cultural Affairs  
Cheryl B. Martin - FHWA  
Dennis Wardlaw - Washington State Department of Archeology  
& Historic Preservation  
Scott Williams - Washington State Department of Transportation  
Kristen Zschomler - MnDOT

### **5:00pm-9:00pm – Dinner and A Tour of the Swedish Institute**

The Swedish Institute is a short bus ride away from the hotel. Buses will leave the hotel at 5pm and 5:30pm. Buses will return from the Institute at 8:15pm and 8:45pm.

## **Tuesday July 18:**

### **7:30am-8:30am – Continental Breakfast**

### **8:30am-10:30am**

#### **Session 1 – Target Performance Room:**

##### **Best Practices and Latest Tools for Effective Communication and Consultation with Tribes**

The intent of this panel session is to bring together transportation specialists who carryout Section 106 tribal consultation on behalf of the FHWA to share and explain best practices including highlighting examples of successful partnerships, and address any questions that the audience may have. Topics will include conflict resolution, barriers to consultation, Section 106 consultation agreements, connecting with those with unique tribal knowledge, changing laws and funding resources, and relationship building.

**Moderator:** Teresa Martin - MnDOT

**Speakers:** Rhonda Fair - Oklahoma DOT  
Carolyn Holthoff - Oregon DOT  
Erica Schneider - Ohio DOT  
Teresa Martin - MnDOT  
Jeani Borchert - NDDOT  
Laura Cruzada - TxDOT

#### **Session 2 – Open Book Room:**

##### **Ten Years On: Assessing the Usefulness of the Statewide Railroad MPDF, Expanding Property Types and Criteria C and D Requirements, and Observations on Project Effects to Railroad Corridors**

The session will present reflections on the usefulness of the 10-year old Multiple Property Document, Railroads in Minnesota: 1858-1956, in assessing the historical significance and

integrity of railroad corridors; the recent efforts to supplement the document to more effectively evaluate certain types of railroad properties under Criteria C and D; and observations on assessing effects to railroad corridors based on recent review of active freight railroads in conjunction with both light rail transit and passenger rail projects of varying distances.

**Moderator:** Elizabeth Abel - MnDOT

**Speakers:** Sigrid Arnott - Sigrid Arnott Consulting  
Andrew Schmidt - Streamline Assoc.  
Garneth Peterson - MnDOT

### **10:30am-10:45am – Break**

### **10:45am-12:15pm**

#### **Session 1 – Open Book Room:**

##### **Documenting the Marginalia**

This session presents four papers that discuss how cultural resource professionals are identifying and evaluating African American owned or controlled spaces that represent an aspect of American history. The first paper will discuss Maryland sites that were listed in The Green Book, and begin to lay out the argument for eligibility since the buildings exemplify the location of activities in Maryland African American communities during segregation. The second presentation will discuss the results of archaeological investigations at the site of Pandenarium, an antebellum freed African American settlement in northwestern Pennsylvania, help provide insight into identifying and evaluating minority spaces from both above and below ground points of view using traditional excavation methods and remote sensing technologies. The third paper presents three examples from Wisconsin, James E. Groppi Unity Bridge, Turtle Creek Park and the Mt. Zion Baptist Church that illustrate some of the challenges of identifying and evaluating minority spaces and structures particularly within the confines of Section 106. The fourth presentation discusses the 1930s influx of African Americans who migrated from the South to an area called Spencer-Sharples near of Toledo, and the issues with establishing a twentieth-century context for this community in the absence of well-established religious or social organizations and its rural setting.

**Moderator:** Anne Bruder - MD SHA

**Speakers:** Anne Bruder - MD SHA  
Maura Johnson - The Mannuck & Smith Group  
Angela Jailet-Wentling - PennDOT  
Bob Newberry - Corre Eng.

#### **Session 2 – Target Performance Room:**

##### **Historic Bridges**

This session will explore a myriad of issues and challenges associated with Historic Bridges and their rehabilitation and replacement. The speakers and topics include:

- Robert W. Hadlow, Ph.D., Senior Historian, Oregon Department of Transportation  
*Achieving a 'Balanced Solution': Developing a Crashworthy Deck Railing for a New Bridge in the Columbia River Highway National Historic Landmark District.*



- Christopher Marston, HAER Architect.  
*Round Peg/Square Hole: Developing the Guidelines for Rehabilitating Historic Covered Bridges.*
- Karen L. Daniels, Senior Historic Preservation Specialist, Missouri Department of Transportation.  
*The Bull Shoals Lake Bridges PA: Listening to Community Needs for Great Mitigation Outcomes.*
- Kristina Thompson, Cultural Resources Specialist, Pennsylvania DOT and Tyra Guyton, Transportation Special Initiatives Coordinator, PA SHPO.  
*Falling PEL - Mell into Planning: A Report from the Field on Our Efforts to Preserve Historic Metal Truss Bridges*

**Moderator:** Lindsey Allen - JMT

**Speakers:** Karen L. Daniela - MoDOT  
Robert W. Hadlow - Oregon DOT  
Christopher Marsten - HAER  
Tyra Guyton - PA SHPO  
Kris Thompson - PennDOT

#### 12:15pm-1:30pm – Lunch

#### 1:30pm-3:30pm

##### Session 1 – Open Book Room:

##### **Beyond the Road: The Benefits of Programmatic Outreach**

The work of Cultural Resources Management (CRM) is important. Archaeologists and historians provide important interpretation and preservation of our cultural heritage. Research and documentation fosters important advances of our understanding of our history and prehistory. For those who are in the field, there is no question that the work being done is vital. But the question to ask isn't "why is CRM important?" In today's world – rife with videos of cats on Facebook and 140-character policy making, the questions we need to ask are: "Who is our audience? What do they want and how do we deliver it? How can we get them involved in projects in a meaningful way?" Research shows that a sustained outreach program on cultural resources increases positive perception of our agencies and our work. CRM public outreach IS important, and if done enthusiastically, collaboratively and creatively, it can impact work with stakeholders on projects down the line. This panel presentation will highlight successful outreach and public involvement projects and will demonstrate how all transportation agencies can benefit from programmatic outreach, especially as it relates to alternative and creative mitigation.

**Moderator:** Rebekah Dobrasko - TxDOT

**Speakers:** Pamela Baughman - GDOT  
Laura Cruzada - TxDOT  
Rebekah Dobrasko - TxDOT



## Session 2 – Target Performance Room:

### Modern Resources

Evaluating the historic significance of modern resources presents many challenges. In this wide-ranging discussion of properties from suburbia to public housing to Prince, the presenters will highlight their observations and approaches on figuring out the recent past.

- Greg Mathis (MnDOT) and Emily Pettis (Mead and Hunt) will cover how MnDOT is developing the historic context for postwar suburban development in the Twin Cities area to deal with the challenge of assessing the magnitude of properties that have the potential to be eligible for the National Register. The talk will cover the importance of the project, the vast number of properties the agency evaluates as a result of ongoing transportation projects, the ongoing first phase of the project and upcoming phases, anticipated streamlining measures that are expected to come out of the project, and how such an approach may help other states.
- The “D. N. Leathers I Public Housing (1940 to 2017) - Concept and Design” presentation by C. Lynn Smith will describe the advent and evolution of public housing in Corpus Christi, Texas through an examination of the D. N. Leathers I public housing project. The presentation will show how the standardized plans and campus design complied with the “Housing Standards” and how the housing project fit into the community. The presentation will also cover how the public housing changed over time until it was demolished in 2017.
- Kristen Zschomler (MnDOT) will highlight the funkiest modern property types ever - ones associated with Prince. Kristen’s presentation will highlight the results of her year-long study of over 30 recent places associated with the Minnesota music icon; and present her observations on the fragility of the recent past, the oddity of Criterion B analysis, and the influence of bias in the analysis of the recent past.

**Moderator:** Emily Pettis - Mead & Hunt

**Speakers:** Kristen Zschomler - MnDOT  
C. Lynn Smith - HNTB  
Emily Pettis - Mead & Hunt  
Gregory Mathis - MnDOT

**3.:15pm-4:45pm – Mill City Museum Tour**

## Wednesday July 19:

**7:30am-8:45am – Breakfast: Aloft Hotel**

**9:00am-4:00pm – Tour**