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Meeting State and MPO Information Needs in a Constrained Fiscal Environment

Joint Midyear Meeting for TRB and AASHTO Committees

June 10–12, 2013

**National Academy of Sciences Building
2101 Constitution Avenue, NW
Washington, D.C.**

Organized by
Transportation Research Board

www.trb.org/conferences/InfoNeeds2013.aspx

Planning Team

Joseph L. Schofer, Northwestern University, *Chair*
Thomas G. Bolle, Research and Innovative Technology Administration (RITA)
Matthew H. Hardy, American Association of State Highway and Transportation Officials (AASHTO)
Charles E. Howard, Puget Sound Regional Council
Catherine T. Lawson, State University of New York at Albany
Michael L. Pack, University of Maryland
Hyun-A C. Park, Spy Pond Partners, LLC
Reginald R. Souleyrette, University of Kentucky
Jack Stickel, Alaska Department of Transportation and Public Facilities (DOT&PF)
Kathryn A. Zimmerman, Applied Pavement Technology, Inc.

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www.TRB.org

June 10–12, 2013



Welcome to the Dialogue

Dear TRB Participant,

We are glad you are attending this midyear meeting of 17 TRB committees and task forces—including most of the committees from the Management and Leadership and Data and Information Sections, as well as the American Association of State Highway and Transportation Officials (AASHTO) Data Subcommittee. These meetings are important and different, designed to bridge the work of the committees and the current context of transportation decision making. Our theme is Meeting State and MPO Information Needs in a Constrained Fiscal Environment.



Schofer

To address this issue, we are mixing plenary sessions and committee working meetings. Plenary sessions will integrate topics, speakers, and discussions to launch the work of the committees, generate ideas for the coming year, and identify opportunities for cross-committee collaboration. In the pages that follow, you will find a schedule of meetings and plenary sessions to guide you through the conference. Please join, engage, and contribute to our shared success.

—Joseph L. Schofer
Northwestern University
Conference Chair

Committees

Special Task Force Data for Decisions and Performance Measures (A0030T)
Policy and Organization Group (AB000)
Knowledge Management Task Force (AB010T)
Management and Leadership Section (ABC00)
Strategic Management Committee (ABC10)
Management and Productivity Committee (ABC20)
Performance Measurement Committee (ABC30)
Transportation Asset Management Committee (ABC40)
Transportation Issues in Major Cities Committee (ABE30)
Data and Information Systems Section (ABJ00)
National Transportation Data Requirements and Programs Committee (ABJ10)
Statewide Transportation Data and Information Systems Committee (ABJ20)
Urban Transportation Data and Information Systems Committee (ABJ30)
Highway Traffic Monitoring Committee (ABJ35)
Travel Survey Methods Committee (ABJ40)
Task Force on Understanding New Directions for the National Household Travel Survey (ABJ45T)
Information Systems and Technology Committee (ABJ50)
Geographic Information Science and Applications Committee (ABJ60)
Visualization in Transportation Committee (ABJ95)
Regional Transportation Systems Management and Operations Committee (AHB10)
AASHTO Standing Committee on Planning (SCOP) Data Subcommittee

June 10–12, 2013



Meeting Agenda

Monday, June 10

Monday, June 10

	NAS 120	NAS 125	Board Room	NAS 114	Auditorium	Great Hall
8:30 a.m.	AASHTO Peer Exchange	Workshop Breakfast (members only)		Measuring and Quantifying Performance Subcommittee [AHB10(1)]		
9:30 a.m.		Transportation Strategic Workshop	Transportation Issues in Major U.S. Cities (ABE30)	Data for Operations Subcommittee [AHB10(3)]		
11:30 a.m.			Operations Professional Capacity Building	Regional Highway and Transit Integration Subcommittee [AHB10(11)]		
1:00 p.m.	AASHTO Peer Lunch	Policy and Organization Group (AB000)				
2:00 p.m.	AASHTO Peer Exchange	Performance Measures (ABC30)	National Transportation Data Requirements and Programs (ABJ10)	Speakers' Meeting: Opening Session		
3:30 p.m.	Break					
4:00 p.m.					Opening Plenary Session: What Do Decision Makers Really Care About?	
6:00 p.m.						Reception

Call-In and GoToMeeting (Optional)

NAS 120	NAS 125	Board Room	NAS 114
Phone: 866-528-2256 Access Code: 3315840 GoToMeeting/Webinar: Mai/Jaclyn/Brie Account	Phone: 866-528-2256 Access Code: 7637719 GoToMeeting/Webinar: Mai/Jaclyn/Brie Account	Phone: 866-528-2256 Access Code: 1716247 GoToMeeting/Webinar: Mai/Jaclyn/Brie Account	Phone: 866-528-2256 Access Code: 1696856 GoToMeeting/Webinar: Mai/Jaclyn/Brie Account

Monday, June 10, 2013



Preconference Activities

Monday, June 10

8:30 a.m.–9:15 a.m., NAS 114

Measuring and Quantifying Performance Subcommittee [AHB10(1)]

Bob Winwick, *presiding*

8:30 a.m.–1:00 p.m., NAS 125

Transportation Strategic Workshop: Get More Money! Using Data Effectively in a Constrained Fiscal Environment

Mara K. Campbell, Missouri Department of Transportation (DOT), *presiding*

Breakfast served at 8:30 a.m., lunch served at Noon

Most transportation agencies are facing a funding crisis—there is not enough money to operate and maintain their transportation systems. Lead agencies are proposing innovative revenue packages to increase funding for transportation. This workshop will focus on cases of transportation agencies that are currently seeking funding and how they can maximize available data to make their case. Workshop participants will get firsthand experience “living” the revenue initiatives and will gain insight into common issues across agencies and best practices across modes. Innovative reporting and communication techniques, including social media, will be shared. Separate fee required.

8:30 a.m.–3:00 p.m., NAS 120

AASHTO Peer Exchange (*members only*)

Breakfast served at 8:30 a.m., lunch served at 1:00 p.m.

Performance-based planning is a process that links programs, investments, project selection, and development with customer-focused performance objectives and specific measures. Well-organized data architectures and data management practices are needed to support performance-based planning. Effective implementation of performance-based planning will require agile, timely, flexible, and innovative responses from many functional areas within transportation agencies—including those that manage data and information technology (IT) systems.

Planning, performance measurement, data, and IT managers from several states will share best practices and discuss the following topics:

1. Potential data and IT systems needs to support performance-based planning;
2. Best practices and strategies for communications and business planning to support performance-based planning processes and operations;
3. Organizational structures and skill sets needed to support performance-based planning and where these skills are best assigned;
4. Strategies for building strong internal relationships among key organizational units, e.g. planners, performance measurement personnel, data managers, and IT professionals; and
5. Role of standards, where standards are best applied, and strategies for defining roles and responsibilities for development and maintenance of those standards.

States interested in participating should contact Matt Hardy, AASHTO, mhardy@ashto.org.

9:30 a.m.–11:15 a.m., NAS 114

Data for Operations Subcommittee [AHB10(3)]

Nikola Ivanov, *presiding*

9:30 a.m.–11:30 a.m., Board Room

Transportation Issues in Major U.S. Cities (ABE30)

Rina Cutler, City of Philadelphia, *presiding*

Monday, June 10, 2013



11:30 a.m.–12:45 p.m., *NAS 114*

Regional Highway and Transit Integration Subcommittee [AHB10(11)]

Bob Sheehan, *presiding*

11:45 a.m.–1:45 p.m., *Board Room*

Operations Professional Capacity Building

Mac Lister, Federal Highway Administration (FHWA), and Douglas E. Noble, Institute of Transportation, *presiding*

1:00 p.m.–2:00 p.m., *NAS 125*

Policy and Organization Group (AB000) (members only)

Johanna P. Zmud, RAND Corporation, *presiding*

Conference Activities

2:00 p.m.–3:30 p.m.

Performance Measures (ABC30), NAS 125

Daniela Bremmer, Washington State DOT, *presiding*

National Transportation Data Requirements and Programs (ABJ10), Board Room

Steven L. Polzin, University of South Florida, and Shashi S. Nambisan, Iowa State University, *presiding*

Speakers' Meeting: Opening Session, NAS 114

3:30 p.m.–4:00 p.m.

Break

4:00 p.m.–6:00 p.m., *Auditorium*

Opening Plenary Session

What Do Decision Makers Really Care About?

Joseph L. Schofer, Northwestern University, *presiding*

The Moving Ahead for Progress in the 21st Century Act (MAP-21) lays out specific requirements for performance measurement, safety analyses, and asset management strategies. Senior decision makers and the public often focus on broader issues: economic development and jobs, public finance and equity, sustainability, and the environment and energy. What messages do these decision makers care about and what will motivate them to invest in transportation in response to our objective measures and analyses? How can we build bridges between data, performance measures, and the higher goals of society? Keynote speakers who have direct experience with these challenges will present perspectives and explore ways to connect transportation performance and social goals.

- **John Halikowski**, Director, Arizona DOT
- **Mark Muriello**, Assistant Director, Tunnels, Bridges, and Terminals, Port Authority of New York and New Jersey
- **Charles Howard**, Director of Integrated Planning, Puget Sound Regional Commission

6:00 p.m.–7:00 p.m., *Great Hall*

Reception

Monday, June 10, 2013



Tuesday, June 11

Tuesday, June 11								
	NAS 120	NAS 125	Board Room	Member Room	NAS 118	NAS 114	Auditorium	Great Hall
8:30 a.m.	Regional Traffic Incident Management Subcommittee [AHB10(8)]	Data Subcommittee [ABC40(1)]	Speakers' Meeting: MAP-21	Management and Leadership Section (ABC00)				Breakfast
9:30 a.m.							Plenary Session 2: Mandates of MAP-21	
11:00 a.m.	Break							
11:30 a.m.	Regional Transportation Systems Management and Operations #1 (AHB10)	Urban Transportation Data and Information Systems (ABJ30)	AASHTO Standing Committee on Planning (SCOP) Data Subcommittee	Management and Productivity (ABC20)	Task Force on Knowledge Management (AB010T)	Geographic Information Science and Applications (ABJ60)		
1:00 p.m.	Committee Chairs and Research Needs Subcommittee [AHB10(7)]	Analysis Subcommittee [ABC40(2)]	Speakers' Meeting: Extreme Weather					Lunch
2:00 p.m.	Regional Transportation Systems Management and Operations #2 (AHB10)	Statewide Transportation Data and Information Systems (ABJ20)	Travel Survey Methods (ABJ40)	Strategic Management (ABC10)	Information Systems and Technology (ABJ50)			
3:30 p.m.	Break							
4:00 p.m.							Plenary Session 3: When Extreme Weather Strikes Transportation Systems	
6:00 p.m.					Assessing the Utility of the 2006–2010 CTPP 5-Year Data			

Call-In and GoToMeeting (Optional)					
NAS 120	NAS 125	Board Room	Member Room	NAS 118	NAS 114
Phone: 866-528-2256 Access Code: 7637719 GoToMeeting/ Webinar: Mai/Jaclyn/Brie Account	Phone: 866-528-2256 Access Code: 1716247 GoToMeeting/ Webinar: Mai/Jaclyn/Brie Account	Phone: 866-528-2256 Access Code: 1696856 GoToMeeting/Webinar: Mai/Jaclyn/Brie Account	Phone: 866-528-2256 Access Code: 3829104 GoToMeeting/Webinar: Mai/Jaclyn/Brie Account	Phone: 866-528-2256 Access Code: 3315840 GoToMeeting/Webinar: Mai/Jaclyn/Brie Account	Phone: 866-528-2256 Access Code: *3800387* GoToMeeting/ Webinar: Mai/Jaclyn/Brie Account



Tuesday, June 11

8:30 a.m.–9:15 a.m.

Breakfast, *Great Hall*

Data Subcommittee [ABC40(1)], *NAS 125*

Jack R. Stickel, Alaska DOT&PF, *presiding*

Regional Traffic Incident Management Subcommittee [ABH10(8)], *NAS 120*

Pat Noyes and Eileen Singleton, *presiding*

Management and Leadership Section (ABC00) (*members only*), *Member Room*

Hyun-A C. Park, Spy Pond Partners, LLC, *presiding*

Speakers' Meeting: MAP-21, *Board Room*

9:30 a.m.–11:00 a.m., *Auditorium*

Plenary Session 2

Mandates of MAP-21—Squeezing What We Need From Existing Data Programs

Matthew H. Hardy, AASHTO, *presiding*

MAP-21 places significant importance on the availability of reliable performance-based data to support agency investment decisions and to improve agency accountability and transparency. Many agencies will be forced to use existing data sources to meet the requirements under MAP-21. Others will find innovative approaches to filling data gaps that minimize the demand for additional resources and maximize the use of the data within the agency. This will require coordinated, cross-cutting data collection efforts that analyze investment options, predict future performance trends, and effectively convey information to elected officials, the public, and other stakeholders. In this session, a panel of speakers will address data requirements under MAP-21 and innovative approaches to data collection. Panelists will share their experiences improving efficiency, coordinating data collection efforts across programs, and disseminating information effectively.

- **Leni Oman**, Washington State DOT
- **Gary Waters**, ESRI
- **Vanloan Nguyen**, Virginia DOT
- **Omar Smadi**, Center for Transportation Research and Education, Iowa State University
- **Ed Strocko**, Office of Freight Management and Operations, FHWA

11:00 a.m.–11:30 a.m.

Break

11:30 a.m.–1:00 p.m.

AASHTO SCOP Data Subcommittee, *Board Room*

Cassandra B. Isackson, Minnesota DOT, and Gregory I. Slater, Maryland DOT, *presiding*

Urban Transportation Data and Information Systems (ABJ30), *NAS 125*

Catherine T. Lawson, State University of New York at Albany, *presiding*

- Guest speaker Burton H. Reist, 2020 Census Research and Planning Office, U.S. Census Bureau, on current plans for the 2020 Census

Task Force on Knowledge Management (AB010T), *NAS 118*

Leni Oman, Washington State DOT, *presiding*

Management and Productivity (ABC20), *Member Room*

Maureen L. Hammer, Virginia DOT, *presiding*

Regional Transportation Systems Management and Operations (AHB10), Part 1, *NAS 120*

Leslie N. Jacobson, Parsons Brinckerhoff, *presiding*

Tuesday, June 11, 2013



Geographic Information Science and Applications (ABJ60), NAS 114
James P. Hall, University of Illinois, Springfield, *presiding*

1:00 p.m.–1:45 p.m.

Committee Chairs and Research Needs Subcommittee [AHB10(7)], NAS 120
Tom Jacobs and Les Jacobson, *presiding*

Analysis Subcommittee [ABC40(2)], NAS 125
William Robert, Spy Pond Partners, LLC, *presiding*

Speakers' Meeting: Extreme Weather, Board Room

1:00 p.m.–2:00 p.m., *Great Hall*

Lunch

2:00 p.m.–3:30 p.m.

Statewide Transportation Data and Information Systems (ABJ20), NAS 125
Jack R. Stickel, Alaska DOT&PF, *presiding*

Travel Survey Methods (ABJ40), Board Room
Guy Rousseau, Atlanta Regional Commission, *presiding*

Information Systems and Technology (ABJ50), NAS 118
Frances D. Harrison, Spy Pond Partners, LLC, *presiding*

Strategic Management (ABC10), Member Room
Mara K. Campbell, Missouri DOT, *presiding*

Regional Transportation Systems Management and Operations (AHB10), Part 2, NAS 120
Leslie N. Jacobson, Parsons Brinckerhoff, *presiding*

3:30 p.m.–4:00 p.m.

Break

4:00 p.m.–6:00 p.m., *Auditorium*
Plenary Session 3

**When Extreme Weather Strikes Transportation Systems:
Implications and Opportunities for Data Before, During, and After**

Catherine T. Lawson, State University of New York at Albany, *presiding*

Recent severe weather events and their substantial impacts on transportation and other infrastructure systems have placed increasing emphasis on the need for and uses of data to address planning, preparation, real-time management, damage assessment, and learning under extreme weather conditions. This discussion will focus on existing data resources, uses of social media, new visualization tools, and data needs for an increasingly uncertain future, based on stories from the front lines, as well as emerging methods and concepts.

- **Shutdown: Transit's Extreme Weather Strategy for Safety and Recovery**
- Reconciling Evacuation with Shutdown
- Lessons from Sandy
Larry Gould, Senior Director, Operations Analysis, Metropolitan Transit Authority New York City Transit
- **Keeping Freight Moving: Enabling Disaster-Resilient Transportation Networks**
Jeremy L. Sage, Research Associate and Assistant Director, Freight Policy Transportation Institute, Washington State University
- **Regional Transportation Management Coordination During Hurricane Sandy**
Matt Edelman, TRANSCOM
- **National Weather Service Support to State and Local DOT Decision Making**
David Green, Team Lead for Emerging Science and Services, National Weather Service, National Oceanic and Atmospheric Administration

Tuesday, June 11, 2013



Tuesday, June 11 (continued)

6:00 p.m.–7:00 p.m., NAS 118

Assessing the Utility of the 2006–2010 Census Transportation Planning Products 5-Year Data
Ed Christopher, FHWA, *presiding*

Wednesday, June 12

Wednesday, June 12						
	NAS 120	NAS 125	Member Room	NAS 118	Auditorium	Great Hall
8:30 a.m.	Implementation Subcommittee [ABC40(3)]	Data and Information Systems Section (ABJ00)				Breakfast
9:30 a.m.	Dealing with Extreme Weather: Improving Transportation's Resiliency	Task Force on Understanding New Directions for the National Household Travel Survey (NHTS) Work Session (ABJ45T)	Special Task Force on Data for Decisions and Performance Measures (A0030T)	Highway Traffic Monitoring (ABJ35)		
11:00 a.m.	Break					
11:30 a.m.	Transportation Asset Management (ABC40)	Task Force on Understanding New Directions for the NHTS (ABJ45T)	Bike and Pedestrian Data Subcommittee [ABJ35(3)]	Visualization in Transportation (ABJ95)		
1:00 p.m.		Planning Committee				Lunch
2:00 p.m.					Closing Session: Committee Plans for the Future	

Call-In and GoToMeeting (Optional)

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Tuesday, June 11, and Wednesday, June 12, 2013



Committee Meetings and Breakout Session

Wednesday, June 12

8:00 a.m.–9:15 a.m., NAS 125

Data and Information Systems Section (ABJ00)

Joseph L. Schofer, Northwestern University, *presiding*

8:30 a.m.–9:15 a.m.

Breakfast, Great Hall

Implementation Subcommittee [ABC40(3)], NAS 120

Jeffrey Price, FHWA, *presiding*

9:30 a.m.–11:00 a.m.

Breakout Session

Dealing with Extreme Weather: Improving Transportation's Resiliency, NAS 120

Jack R. Stickel, Alaska DOT&PF, *presiding*

Highway Traffic Monitoring (ABJ35), NAS 118

Peter L. Keen, Digital Traffic Systems, Inc., and Elizabeth A. Stolz, Chaparral Systems Corporation, *presiding*

Special Task Force on Data for Decisions and Performance Measures (A0030T), Member Room

Johanna Zmud, RAND Corporation, *presiding*

Task Force on Understanding New Directions for the National Household Travel

Survey Work Session (ABJ45T) (members only), NAS 125

Stacey G. Bricka, Texas A&M Transportation Institute, *presiding*

11:00 a.m.–11:30 a.m.

Break

11:30 a.m.–1:00 p.m.

Task Force on Understanding New Directions for the National Household Travel Survey

(ABJ45T), NAS 125

Stacey G. Bricka, Texas A&M Transportation Institute, *presiding*

Transportation Asset Management (ABC40), NAS 120

Kathryn A. Zimmerman, Applied Pavement Technology, *presiding*

Visualization in Transportation (ABJ95), NAS 118

Patricia S. Hu, RITA, and Michael L. Pack, University of Maryland, *presiding*

Bicycle and Pedestrian Data Subcommittee [ABJ35(3)], Member Room

Elizabeth A. Stolz, Chaparral Systems Corporation, *presiding*

1:00 p.m.–2:00 p.m.

Lunch, Great Hall

Planning Committee Working Lunch (members only), NAS 125

Joseph L. Schofer, Northwestern University, *presiding*

Wednesday, June 12, 2013



2:00 p.m.–3:30 p.m., *Auditorium*

Closing Plenary Session

Discussion of Committee Ideas and Plans for the Future

Joseph L. Schofer, Northwestern University, *presiding*

This is the session in which the rubber hits the road! In this closing meeting, we will bring the committees together to describe ideas, opportunities for collaborations, and plans for moving forward to the 2014 TRB Annual Meeting and beyond.

- **Jack Stickel**, Alaska DOT&PF, and Chair, Statewide Transportation Data and Information Systems Committee
- **Hyun-A C. Park**, Spy Pond Partners, LLC, and Chair, TRB Management and Leadership Section
- **Gregory I. Slater**, Maryland DOT, and Cochair, AASHTO SCOP Data Subcommittee
- **Leslie N. Jacobson**, Parsons Brinckerhoff, and Chair, Regional Transportation Systems Management and Operations Committee

Wednesday, June 12, 2013



Upcoming Meetings

Transit GIS Conference

October 16–17, 2013

Washington, D.C.

7th International Visualization in Transportation Symposium: Visualization for Big Data

October 23–25, 2013

Irvine, California

TRB 93rd Annual Meeting

January 12–16, 2014

Washington, D.C.

10th National Conference on Transportation Asset Management

April 28–30, 2014

Miami, Florida

June 10–12, 2013





10th National Conference on Transportation Asset Management

April 28–30, 2014
Miami, Florida

www.trb.org/conferences/AssetManagement2014.aspx

Program Overview

The 10th National Transportation Asset Management Conference will cover topics on surface transportation modes of interest to agencies in all stages of asset management practice implementation. Themes will include comprehensive implementation within and across organizations, establishing and monitoring asset management plans, performance measures for asset management, tools and technology to assist decision making, transit state of good repair, and adaptation of transportation to extreme weather events and climate change. This meeting will serve as the forum for shifting into practice asset management initiatives from the Moving Ahead for Progress in the 21st Century Act (MAP-21) and as the venue for federal, state, local, and transit agencies; metropolitan planning organizations; and private-sector practitioners and university researchers to share knowledge, sponsor peer-to-peer learning, and work together.

Primary Objectives:

- To provide a forum to develop plans required to meet MAP-21 mandates and identify opportunities for these plans to improve existing agency practices.
- To offer a better understanding of the barriers to implementation at various levels in a single organization—as well as across organizations—and how to overcome them.
- To identify emerging practices in the use and implementation of performance measures for asset management, leading to effective adoption and deployment.
- To highlight emerging practices between states and owners of large transportation networks with respect to implemented and evolving technologies, methods, and tools.
- To help practitioners incorporate into decision making the impacts of extreme weather events and climate change on transportation infrastructure, while increasing the use of risk assessment and vulnerability analysis.
- To host a forum for transit professionals to expand on existing State of Good Repair Roundtable activities and to transfer knowledge among transit agencies on best practices in maintenance, procurement, and operations.

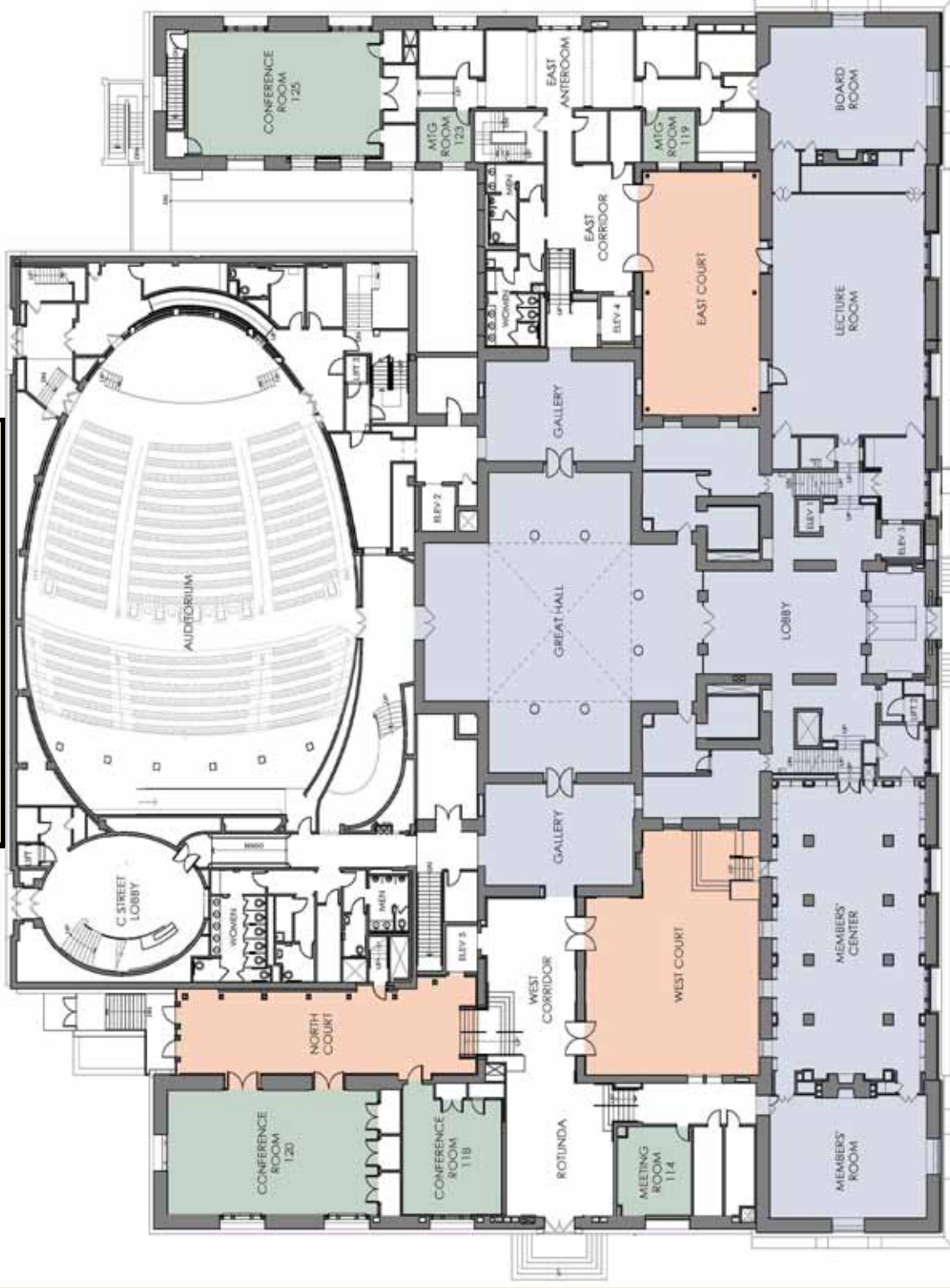
Call for Presentations

A formal call for presentations will be released in early June with responses due by July 31, 2013.

Conference Schedule

Preconference workshops are being planned for April 27–28, 2014. The conference will begin at 8:00 a.m. on Monday, April 28, and conclude at noon on Wednesday, April 30.

NAS BUILDING



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