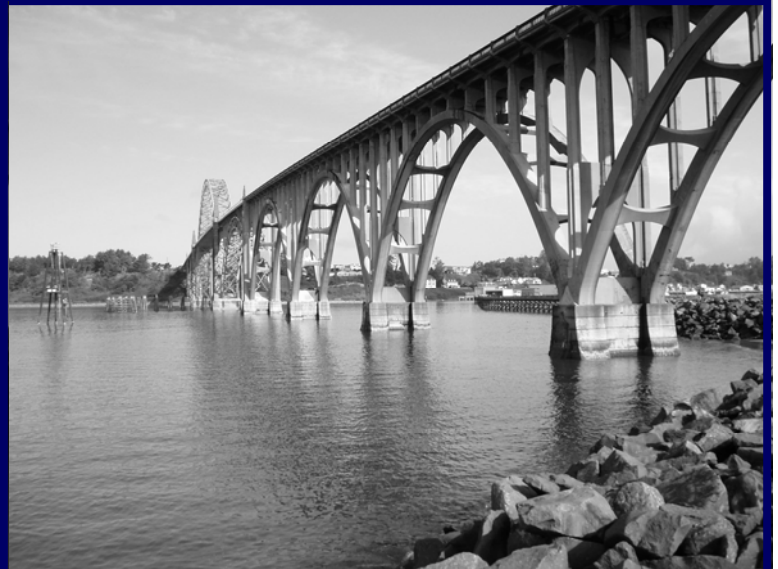




**PNW BRIDGE
INSPECTORS
CONFERENCE**



Responsible Leadership in Bridge Inspection

March 31 – April 2, 2009
The Sheraton Portland Airport Hotel
Portland, Oregon

Pacific Northwest Bridge Inspectors' Conference

Agenda—At a Glance

Tuesday, March 31st

- 11—1:00 p.m.**
Registration
Mt. Hood Foyer
- 1:00 p.m.**
Welcome, Introductions,
& Keynote Speaker
Mt. Hood Ballroom
- 2:00 p.m.**
Session 1: National and
International
Perspectives
Mt. Hood Ballroom
- 3:00 p.m.**
Break—Visit Exhibits
Mt. Hood Foyer
- 3:30 p.m.**
Session 2: Meeting CFR
Requirements
Mt. Hood Ballroom
- 5:00 p.m.**
Ice Breaker Gathering—
Visit Exhibits
Mt. Hood Foyer



Wednesday, April 1st

- 8:00 a.m.**
Session 3: Interesting
Solutions to Bridge
Inspection Barriers
Mt. Hood Ballroom
- 10:00 a.m.**
Break—Visit Exhibits
Mt. Hood Foyer
- 10:30 a.m.**
Session 4: In-Depth
Inspections
Mt. Hood Ballroom
- 12:00 p.m.**
Lunch: Provided
Mt. St. Helen's Ballroom
- 1:30 p.m.**
Session 5: Special
Inspections
Mt. Hood Ballroom
- 3:00 p.m.**
Break—Visit Exhibits
Mt. Hood Foyer
- 3:30 p.m.**
Session 6: Fracture
Critical Inspections
Mt. Hood Ballroom
- 5:00 p.m.**
Adjourn for the Day

Thursday, April 2nd

- 8:00 a.m.**
Session 7: Structure
Monitoring
Mt. Hood Ballroom
- 10:00 a.m.**
Break—Visit Exhibits
Mt. Hood Foyer
- 10:30 a.m.**
Session 8: Bridge
Inspection Safety
(Panel)
Mt. Hood Ballroom
- 11:30 a.m.**
Conference Closing
Session
Mt. Hood Ballroom
- 12:30 p.m.**
Conference Adjourned



Presenter Biographies

Ray Bottenberg

Ray Bottenberg, P.E. is the Senior Corrosion Engineer in ODOT's Bridge Preservation Engineering Team. A 1986 mechanical engineering graduate of Oregon State University, Ray worked as an aircraft structures engineer for The Boeing Company in Seattle, Washington from 1986 to 1997 and worked as a project manager/engineer for a commercial/industrial heating, ventilating, and air conditioning contractor before joining ODOT in 1999. In his personal time he has authored the photo history books "Bridges of the Oregon Coast," "Bridges of Portland," "Grand Coulee Dam," and "Vanishing Portland" and he enjoys spending time with his wife Leanna and their five-year-old son Ian.

Barry Brecto

Barry Brecto has over 25 years of experience with the Federal Highway Administration. This experience has been centered on all aspects of highway transportation structures- design, construction, maintenance and inspection. Work assignments in the States of California, Oregon, Colorado, Utah, Illinois, Idaho, Alaska and Washington have given Mr. Brecto an understanding of regional and state capabilities and practices. He has also performed national bridge inspection quality reviews throughout the country. His current position is Division Bridge Engineer in Washington State.

Mr. Brecto has been involved in reviewing bridge inspection programs since 1985. He has been developing, reviewing and presenting training in NBIS bridge inspections since 1988. He has served as an instructor for the National Highway Institute's bridge inspection training as well as Washington State Department of Transportation's 2-week course. He was part of the team to write FHWA's *Bridge Inspection Reference Manual* and served on FHWA's national team to revise the SI&A Coding Guide from 2000 to 2003.

Mr. Brecto earned a Bachelor of Science in Civil Engineering from Washington State University. He is a registered professional engineer in the State of Oregon.

Shay Burrows

Shay Burrows is a Senior Structural Engineer with the Federal Highway Administration's Resource Center in Baltimore, Maryland. He earned a Bachelor of Science degree in Mechanical Engineering in 1993 and a Master of Science degree in Civil Engineering in 1996 with an emphasis in structures both from the Rutgers University. He is a registered professional engineer in Pennsylvania. Mr. Burrows joined the Federal Highway Administration in 1996 and advanced his bridge engineering knowledge and experience with positions in New Hampshire, Mississippi, Colorado, and New Jersey before joining the Resource Center in 2004 to provide guidance and solutions in the structural engineering areas of bridge inspection, bridge management, and transportation security. He has led teams on bridge inspection program reviews of state transportation departments and bridge inspection program exchanges among several states to share bridge inspection policies and practices and identify commendable practices. Mr. Burrows has also worked with the AASHTO Subcommittee on Bridges and Structures to develop a national framework for bridge inspection quality control and quality assurance programs

Jody Bywater

Jody B. Bywater is the Quality Assurance Engineer in the WSDOT Bridge Preservation Office. He is responsible for verifying the accurate completion of bridge inspection reports and verifying that the associated information within the bridge files are complete. He performs a review of selected bridge inspection reports and conducting quality assurance inspections on them. He has been with state for 17 years and has been in the bridge office for the last 12. Jody is married with four children.

Erick Cain

Erick Cain Local Agency Bridge STIP Coordinator, Oregon DOT Bridge Program Unit Erick has his BS (Geography degree) from Oregon State University. For the past 4 1/2 years Erick has worked in the Bridge Program Unit. Erick has also worked closely with the Bridge Operations Unit in developing the use of new technologies in bridge inspection work. Some of the new bridge inspection technologies Erick has been involved include the Resistograph, Automated Vertical Measurement System, and GPS technology to improve the latitude and longitude coordinates on NBI bridges, and using GIS technology to create custom maps for ODOT Bridge Engineering, and other ODOT Sections and Local Governments.

Presenter Biographies

Ed Cinadr

Edward Cinadr is a bridge engineer and project manager at Burgess & Niple, Inc. with 11 years of bridge design, rating, and inspection experience. Mr. Cinadr holds a Master of Science degree in Civil Engineering from Ohio University. He is a registered professional engineer in Ohio, Oregon, and Oklahoma.

George Comstock

George Comstock works for WSDOT Bridge Preservation and since January 2006 manages WSDOT's bridge records, including databases and software in support of the bridge inspection program. From 2001 through 2005, he worked for Bridge Preservation supervising bridge inspection teams. From 1988 to 2001, George worked for several consulting engineering firms, performing bridge inspections, load ratings, and bridge design work. George graduated with a BSCE from City College of New York in June 1988.

Tom Everett

Tom Everett is the bridge programs team leader in the FHWA Office of Bridge Technology in Washington, DC. Mr. Everett manages the Federal bridge program, which includes the Highway Bridge Program, Discretionary Bridge Program, National Historic Covered Bridge Preservation Program, and the National Bridge Inspection Standards.

Before joining the Office of Bridge Technology, Mr. Everett served as a structural engineer in the former Regional Office for Structures in Baltimore, a Division Office bridge engineer in Tennessee, and as a Bridge Management and Inspection Engineer in the Resource Center in Baltimore.

Mr. Everett is a graduate of Rutgers University and holds a master's degree in civil engineering from Johns Hopkins University. He is a licensed professional engineer in Rhode Island and Tennessee.

Cameron Glasgow

Cameron Glasgow has worked for the City of Portland for 2 years in the Bridges and Structures Section as a Senior Engineering Associate. He works on a variety of tasks including maintenance design of bridges, wall design, asset management, and project management. Before joining the City of Portland, Cameron spent over 3 years with the Federal Highway Administration as a trainee in Colorado and as a Division Bridge Engineer in Idaho. He has a bachelor's degree in Civil Engineering from Santa Clara University and a master's degree in Civil Engineering from Portland State University. Cameron is a registered Professional Engineer in Oregon.

Bert Hartman

Bert Hartman graduated from Oregon State University with a degree in Mechanical Engineering. Bert has been with the Oregon Department of Transportation for ten years, and is a registered Professional Engineer. While at ODOT, Bert has been involved with bridge data, the initial selection of bridges for repair or replacement through the Oregon Transportation Investment Act, load rating, permit review, and the selection of bridges for several STIP cycles. Bert has worked with Pontis from the initial database conversion, model development, and evaluation of how best integrate Pontis modeling capabilities with existing management processes used for project selection.

Michael Higgs

BSCE, EIT & LSIT in 1981 from Oregon State University

Reserve Officer USCG from 1981 through 1989

Alaska Resident since 1981

Past ASCE Branch in 1989 & State Section President in 1997

Engineer of the Year & Project of the Year in 2000

State of Alaska, Department of Transportation & Public Facilities Employee since 1986

Bridge designer of 50+ structures between 1986 & 2000

Bridge Inspector since 1992

Currently High Mast Inspector & Program Manager, Underwater Inspection Manager

Certified PADI Rescue Diver

Specialized training in Confined Space, Fall Protection & NDE

Special Olympics Coach in Track & Field & Alpine events

Presenter Biographies

Margaret Holwegner

Margaret has worked for with King County for sixteen years. She started in the Drainage Operations Department, spent time in the Environmental Unit and has been with the Bridge Unit for the past three years. She manages the City and Parks inspection program as well as inspecting much of the King County bridge inventory. She also works on the design team for the King County Shortspan Bridge Program.

Tom Howell

Tom Howell is a structural engineer and bridge inspector with HDR Engineering, Inc. in Portland, OR. Tom received his bachelor's degree in Civil Engineering from the U.S. Military Academy at West Point. Following 6 years of military service in the U.S Army Corps of Engineers, Tom earned his master's degree in Civil Engineering from the University of Pittsburgh. During Tom's tenure at HDR, he has inspected numerous structures throughout the Midwest, Northeast, and Northwest United States. Tom has led inspection projects in Nebraska, Oregon, and Washington and is a licensed professional engineer in Pennsylvania, Oregon, and Alaska.

Paul Jensen

Paul Jensen is a bridge management systems engineer for the Montana Department of Transportation in Helena, Montana. He develops and administers the State's bridge inspection standards, policies, and procedures. His work includes developing and updating MDT's *Bridge Inspection Manual* and updating the policy and procedures in the quality control/quality assurance area. Since joining DOT in 1995, he has developed and implemented automated checking procedures for DOT's electronic bridge inspection inventory data. He is a licensed professional engineer in Montana and serves on several TRB technical committees, AASHTO's BRIDGEWare Task Force and is on the external advisory board for the Long-Term Bridge Performance Program.

Greg Kolle

Greg Kolle was born in Camp Roberts, Monterey County, California. He grew up in the Red River Valley area of Minnesota and North Dakota and did a tour in USAF at Mountain Home, Idaho. Greg graduated BSCE from North Dakota State University in 1981. Worked for FHWA Western Federal Direct as a bridge inspector and load rating engineer. Chief of Structures for the Department of Defense Fort Lewis, WA. WSDOT Local Programs Bridge Engineer, Bridge Management Engineer, Load Rating and Scour Engineer, Heat Repair Engineer, In-Depth Inspection Engineer, Ferry Terminal Inspection Engineer, and Routine Inspection Engineer. Federal Highways Nebraska Division and California Division Structures Engineer (Note: A California native returns).

Timothy Lane

Timothy Lane has 25 years of experience in bridge engineering - inspecting and maintaining existing bridges in this region while designing and managing new bridge projects. Tim has a good knowledge of the bridges in the Seattle/King County area having worked with all the bridges in the City of Seattle before moving on to King County where he oversees over 400 bridges throughout the county. Currently, Tim is Project Manager of an effort to replace a major drawbridge in South Park community in Southern Seattle as well as maintaining 100-year old railroad timber trestles that are now part of a huge countywide recreational trail system.

Brian Leshko

Brian J. Leshko is a Vice President, Professional Associate and HDR's National Bridge Inspection Program Leader based out of Pittsburgh, PA. He received his B.S.C.E. from the United States Air Force Academy in 1985, an M.S. in Structural Engineering from the University of Connecticut in 1990, and a Master of Civil Engineering with an emphasis in Structural Dynamics from The Johns Hopkins University in 1994. Following his regular commission in the U.S. Air Force, Brian served 7 years on Active Duty as a Civil Engineering Officer with assignments as a Construction Engineer, Quality Assurance Evaluator, and Instructor of Civil Engineering. He has devoted the last 15 years of his career as a bridge engineer and inspector. His experience includes in-depth bridge condition inspections, rehabilitation designs, and ratings by working stress and load factor methods. He is a Certified Bridge Safety Inspector and a SPRAT-Certified Level I Rope Access Technician with extensive rope access and assisted-climbing experience inspecting large and complex structures, including plate girder, box girder, arch, suspension, segmental concrete and various truss bridges (highway and railroad). Brian has been a Professional Engineer since 1992, and he is registered in 13 states. Married to Debra Bogen for 21 years, they have two daughters, Shana (14) and Talia (11).

Presenter Biographies

Mark Libby

Mark Libby is the Bridge Program Manager for HDR's Portland Office. Mark has a B.S. in Civil Engineering from the University of Missouri, Columbia, and is a registered professional engineer in OR, WA, and MO. He has 21 years of experience in bridge design, inspection, and construction.

Steve Lovejoy

Steve is a senior engineer in the Bridge Engineering Section of the Oregon Department of Transportation where he has worked since 1991. His primary responsibilities are fracture and fatigue control, movable bridges, weld engineering and structural health monitoring.

David O'Longaigh

David O'Longaigh has worked for the City of Portland Bureau of Transportation since 2006 as Supervising Engineer for the Bridge and Structure section. He has a bachelor's degree in Structural Engineering from the University of Dublin, Ireland, and is a registered PE and SE in the State of Oregon. His interests include the preservation of historic structures.

John Orbistondo

John Orbistondo is a non-degreed engineering assistant with the State of Alaska, Department of Transportation, Bridge Section. Primary duties in support of the bridge management and inspection unit include: managing various bridge inventory databases (including Pontis), designing inspection related traffic control plans as a Certified Traffic Control Supervisor, performing inspections of and assisting with routine and special bridge inspections, reviewing proposed utility attachments to bridges, compiling and reporting of bridge construction unit costs. John is a lifelong Alaskan and holds a B.B.A. in business management from the University of Alaska, Southeast. He is an FCC licensed amateur radio Technician, call sign KLØTK. John has worked the Bridge Section since 1989.

Roman Peralta

Roman G. Peralta is one of two Regional Bridge Inspection Engineers in the WSDOT Bridge Preservation Office. He is responsible for the development and maintenance of the bridge inspection program statewide, including scheduling, coordinating, equipping, and verifying the accurate completion of all routine, fracture critical, special, and short span inspections for all WSDOT owned bridges, and all "high cost" local agency bridges in accordance with FHWA and WSDOT requirements. He has been with state for 12 years and has been in the bridge office for the last 10. Roman is married with four children.

Katie Prichard

Katie Prichard has been working for the Oregon Department of Transportation Bridge Engineering Section since 2004. During this time she has moved her way up from various positions, acquiring various skills related to work within the bridge community. In December of 2008 Katie joined the newly formed Vertical Clearance Team and has played a lead role in developing and maintaining this program ever since.

Tom Ryan

Tom. Ryan a registered Professional Engineer and is currently involved in the FHWA and PennDOT Bridge Safety Inspector Training and Certification Program. He has served as the Project Manager for the development of the FHWA *Bridge Inspector's Reference Manual* and the NHI's two-week Bridge Inspector Training Course, Bridge Inspector Refresher Training Course and Fracture Critical Inspection Course and PennDOT's Bridge Management System, Refresher Course and the Inventory and Assessment of CoRe Elements.

He has presented bridge inspection training in 40 states, Puerto Rico and Saudi Arabia.

Mr. Ryan is also assisting the Pennsylvania Turnpike Commission implement CoRe Element Inventory for their bridges and incorporating NTSB recommendations after the I-35W Bridge Failure to revise gusset plate inspection.

Presenter Biographies

Drew Sielbach

Work Experience

1990 – Present: AKDOT & PF Bridge Management Engineer

1988 – 2000: FHWA Bridge Engineer

1985 – 1986: Peace Corps-Building schools

1983 – 1985: Clearwater Constructors-Building Construction Project Engineer

Oversee Alaska's bridge inspection program and have inspected bridges throughout Alaska.

Education

1994 Masters in Civil Engineering: University of Missouri-Rolla

1988 Bachelors in Civil Engineering: Montana State University

1983 Bachelors in Construction Engineering Technology: Montana State University

Registration

Registered Professional Engineer in Missouri and Alaska

Kathleen Slinger

Kathleen has a Masters Degree in Civil Engineering with a Structures Emphasis from the University of Idaho. She has been employed by the Idaho Transportation Department since 1983 – 8 yrs in Bridge Design and the last 18 years in Bridge Inspection as the program manager. Kathleen served on the AASHTO Task Force for Load Rating in the mid 90's. In her spare time she has been a runner for 35 years. Two years ago she acquired a 12 yr old Arabian horse. And now he does a lot of her running for her.

Jeff Swanstrom

Jeff has his BSCET (Civil Engineering Technology degree with an associate degree in Structural engineering) from the Oregon Institute of Technology. For the past 18 years Jeff has performed in-service inspections of hundreds of State, Local Agency and Other Agency NBI bridges and culverts throughout the State of Oregon. His inspection work has also included the inspection of tunnels and sign structures. For the past 5 years Jeff has served as ODOT Senior Bridge Inspector with major duties including contracting with consultants to inspect complex bridges or by leading an experienced team to perform these inspections. Jeff also heads-up the Bridge Section HQ Tunnel Group comprised of a multi-disciplinary team of engineers who help to make sure that our state-owned tunnels remain safe. Jeff is married and he and his wife Katie have two children, Erik, 18 and Ella, 14

Eric Thorkildsen

Eric Thorkildsen is a regional manager for Collins Engineers working out of their New York office. Eric has been involved with bridges for 25 years, the first half of his career working as a DOT employee for New Jersey and Caltrans, the other half in private consulting. This past year Eric concurrently managed five structural inspection projects for DOTs in California, New York, New Jersey, Connecticut and Delaware. He obtained his BS degree in Civil Engineering from Rutgers University and is registered as a professional engineer in 8 states. Eric is a National Highway Institute instructor, is a board member for the Associated Council of Engineering Companies (ACEC), and is currently on their bridge working group helping to recommend changes to the current inspection standards.

Steve Yates

Steve Yates has worked for the City of Portland Bureau of Transportation in a number of capacities over the last 30 years. He has been a surveying aide, a plan reviewer, a streets and structures construction inspector, a street designer, and a bridge designer. Since 1991 he has been the City's Bridges and Structures Maintenance Engineer, responsible for the design of maintenance repairs, updating and maintaining the City's bridge and structures inventory records, conducting bridge and structure inspections, and the administration of the bridge inspection program. He has a bachelor's degree in Civil and Structural Engineering from Portland State University, and has been a registered PE in the State of Oregon since 1983.

PNW Bridge Inspectors' Conference Sessions

—Tuesday, March 31st—

1:00 p.m. Welcome, Introductions, and Keynote

Moderator: Glen Scroggins, Washington State Department of Transportation

Welcome: Harvey Coffman, Washington State DOT

Conference Comments: Barry Brecto, FHWA Washington

1:15—2:00—Keynote Speaker—National Issues in Bridge Inspection, Tom Everett, FHWA Headquarters

2:00 p.m. Session 1: National and International Perspectives

Moderator: Glen Scroggins, Washington State Department of Transportation

2:00—2:30—Bridge Evaluation Quality Assurance, International Scan Tour—Paul Jensen, Montana DOT

2:30—3:00—Federal Perspective on Load Rating and Posting of Bridges—Barry Brecto, FHWA Washington & Greg Kolle, FHWA California

3:30 p.m. Session 2: Meeting CFR Requirements

Moderator: Shanon Murgotio, Idaho Transportation Department and Ed Miltner, FHWA Idaho

3:30—4:00—Quality Control & Quality Assurance in the Bridge Inspection Program—Shay Burrows, FHWA Resource Center

4:00—4:30—Inspection of Other Public Agency Bridges—Jeff Swanstrom, Oregon DOT

4:30—5:00—Inspection & Analysis of Truss Gusset Plates—Ed Cinadr, Burgess & Niple

—Wednesday, April 1st—

8:00 a.m. Session 3: Interesting Solutions to Bridge Inspection Barriers

Moderator: Drew Sielbach, Alaska Department of Transportation and Shay Burrows, FHWA Resource Center

8:00—8:30—Cleaning & Inspection of Historic Van Buren Street Bridge—Ray Bottenberg, Oregon DOT

8:30—9:00—Inspection of the Willamette River (Fremont) Bridge—Tom Howell, HDR; Mark Libby, HDR; & Jeff Swanstrom, Oregon DOT

9:00—9:30—Inspection of Bridges in Connecticut—Eric Thorkildsen, Collins Engineers

9:30—10:00—State of Alaska's Land Mobile Radio System—John Orbistondo, Alaska DOT

10:30 a.m. Session 4: In-Depth Inspections

Moderator: Pete Whitfield, CalTrans and Greg Kolle, FHWA California

10:30—11:00—Bridge Bearing Inspection—Drew Sielbach, Alaska DOT

11:00—11:30—PennDOT P/S Box Girder Failure Investigation—Tom Ryan, Michael Baker Engineers

11:30—12:00—ODOT's Remote Health Monitoring System—Ray Bottenberg, Oregon DOT

PNW Bridge Inspectors' Conference Sessions

—Wednesday, April 1st—

1:30 p.m. Session 5: Special Inspections

Moderator: Paul Jensen, Montana Department of Transportation and Tim Rogers, FHWA Oregon

1:30—2:00—Underwater Acoustic Imaging Inspection of Portland's Seawall—Steve Yates, David O'Longaigh, & Cameron Glasgow, City of Portland

2:00—2:30—Video Deck Inspection—Jody Bywater & Roman Peralta, Washington State DOT Bridge Preservation Office

2:30—3:00—Collecting Vertical Clearances Using a Vehicle Mounted Laser System—Erick Cain & Katie Prichard, Oregon DOT

3:30 p.m. Session 6: Fracture Critical Inspections

Moderator: Dave Severns, Nevada Department of Transportation and Terry Philbin, FHWA Nevada

3:30—4:00—Fracture Critical Inspections Using Rope Access Techniques—Brian Leshko, HDR Engineering

4:00—4:30—Fracture Critical Inspections in Remote Areas of Alaska—Mike Higgs, Alaska DOT

4:30—5:00—ODOT's Pin & Hanger Inspection Program—Steve Lovejoy, Oregon DOT

—Thursday, April 2nd—

8:00 a.m. Session 7: Structure Monitoring

Moderator: John Williams, Hawaii Department of Transportation and Barry Brecto, FHWA Washington

8:00—8:30—Monitoring Long Term Soil-Structure Interaction on the Mercer Sl Intch—George Comstock, WSDOT

8:30—9:00—Real-Time Bridge Monitoring: BridgeWatch—Kathleen Slinger, Idaho TD

9:00—9:30—King County Bridge Monitoring Procedures—Margaret Holwenger & Tim Lane, King County

9:30—10:00—Using Bridge Inspection Information to Formulate Bridge Programs—Bert Hartman, ODOT

10:30 a.m. Session 8: Bridge Inspector Safety (Panel)

Moderator: Larry O'Donnell, FHWA Resource Center

Panelists: Pete Whitfield—California, Harvey Coffman—Washington, Jim Holland—Idaho, Dave Severns—Nevada, John Williams—Hawaii, Gary Bowling—Oregon, and Drew Sielbach—Alaska

12:00 p.m. Closing Remarks and Door Prize Drawings

Conference Comments: Gary Bowling, ODOT & Tim Rogers, FHWA Oregon

Guest Speaker: Bruce Johnson, Oregon DOT

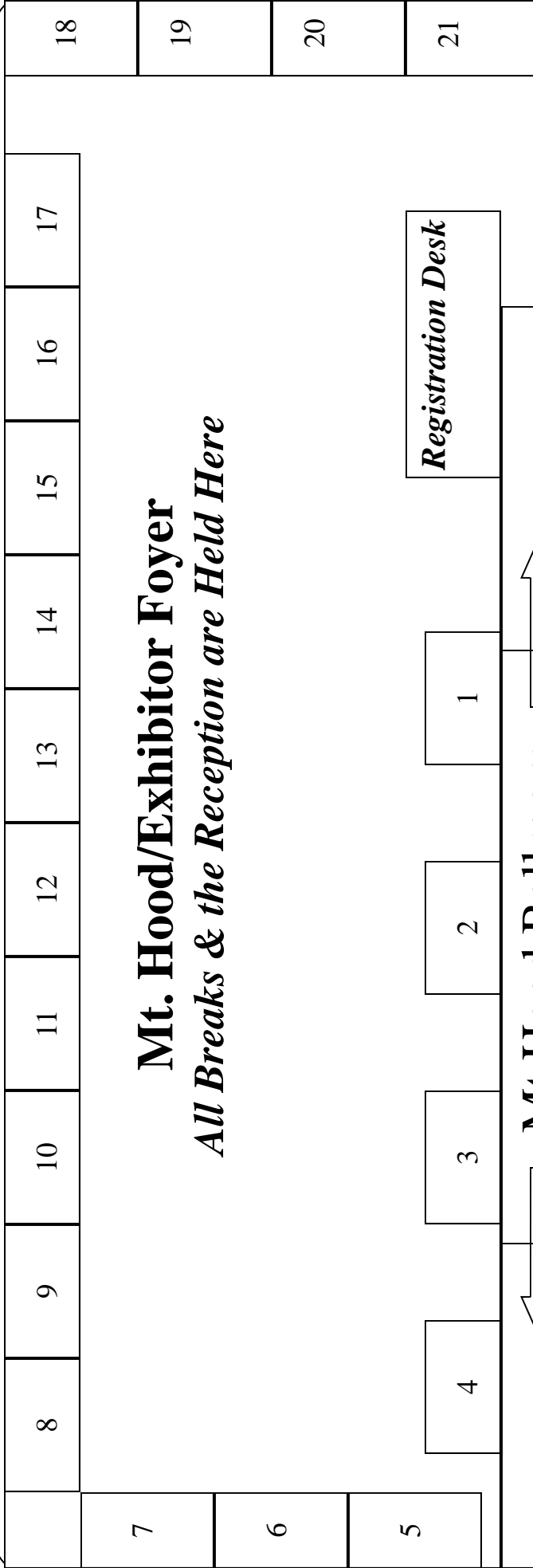
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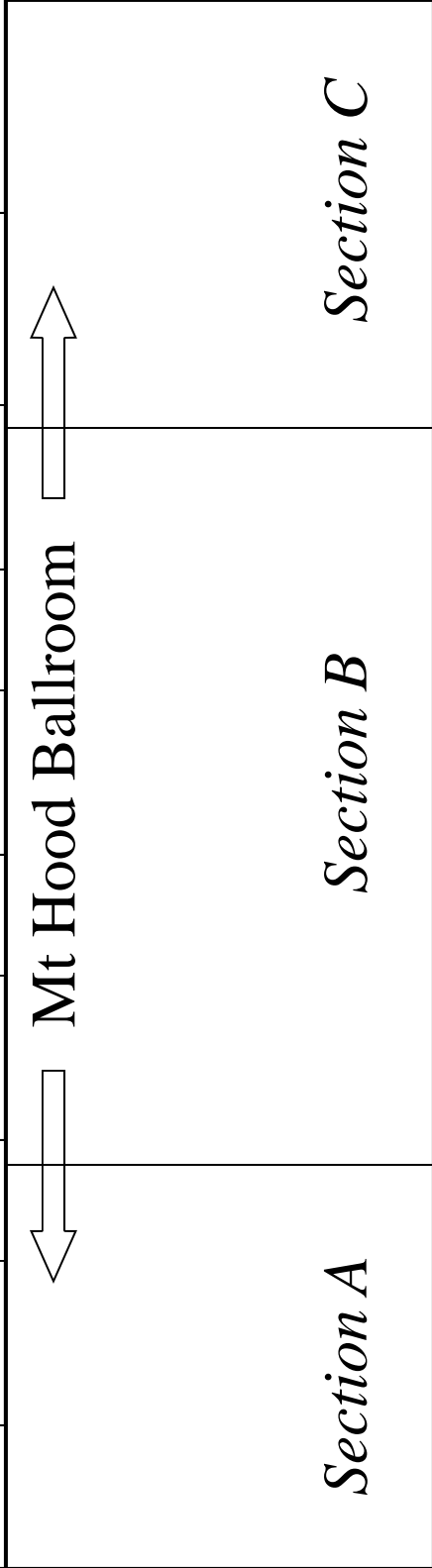
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Ayres Associates

Rick Maslyn

8875 Hidden River Parkway—Suite 200

Tampa, FL 33637

813-978-8688

maslynr@AyresAssociates.com

www.AyresAssociates.com