AASHTO re:source would like to thank all of our sponsors for their support of our event.

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Their support contributes greatly to the success of the 2018 Technical Exchange.
**Monday, March 12**

Registration is open from 1:00 p.m.–5:00 p.m. in the South Foyer of the hotel. Exhibitors will be available starting at 5:00 p.m. in the Southwest Foyer.

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Details</th>
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</table>
| 8:00 a.m.–Noon| **Shutters East I & II**  
AASHTO Executive Council Meeting  
(by invitation only)          |
| 1:00 p.m.–5:00 p.m. | **Shutters East I & II**  
AASHTO Administrative Task Group Meeting  
(by invitation only)          |
| 5:30 p.m.–7:00 p.m. | **South Foyer, West Foyer and The Deck**  
Evening Reception/Ice Breaker  
(all attendees welcome)          |

**Tuesday, March 13**

Registration is open from 7:00 a.m.–5:00 p.m. in the South Foyer of the hotel. Exhibitors will be available starting at 7:00 a.m. in the Southwest Foyer.

<table>
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<tr>
<th>Time</th>
<th>Event Details</th>
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| 7:00 a.m.–8:00 a.m. | **Gallery**  
Breakfast          |
| 8:00 a.m.–8:35 a.m. | **Great Room IV & V**  
OPENING PLENARY SESSION         |
|               | Steven Lenker, Director, AASHTO re:source and CCRL  
Announcements Tracy Barnhart, Quality Manager, AASHTO re:source  
Keynote Address Moe Jamshidi, Deputy Director for Operations, Nebraska DOT |
| 8:35 a.m.–8:45 a.m. | **Short Break**          |
| 8:45 a.m.–9:30 a.m. | **BREAKOUT SESSIONS ROUND A**          |
|               | Effective Management Reviews  
Tracy Barnhart, Quality Manager, AASHTO re:source  
Great Room I, II, & III  
Standards Development and You  
Maria Knake, Manager, Laboratory Assessment Program, AASHTO re:source  
Shutters East I & II  
ASTM C511—Understanding Curing Facilities Requirements  
Megan Karr, Quality Analyst, AASHTO re:source  
Guy Trease, Operations Manager, CCRL  
Great Room VI, VII, & VIII |
| 9:30 a.m.–10:00 a.m. | **Southwest Foyer**  
Break          |
| 10:00 a.m.–Noon | **BREAKOUT SESSIONS ROUND B**          |
| Lab Manager 101 | Tom Taylor, Principal/Director of Laboratory Services, Specialized Engineering  
Great Room I, II, & III          |
| Understanding Equipment Calibration, Standardization, Check, and Maintenance | Jim Wesselhoff, Laboratory Assessor, AASHTO re:source  
Great Room VI, VII, & VIII          |
| Aggregate Management for Asphalt Mixtures | Dale S. Decker, Owner/Operator, Dale S. Decker, LLC  
Shutters East I & II          |
| Noon–1:00 p.m. | **Gallery**  
Lunch          |
| 1:00 p.m.–2:30 p.m. | **BREAKOUT SESSIONS ROUND C**          |
| Soil Classification | Nicole Butkus, Laboratory Assessor, AASHTO re:source  
Shutters East I & II          |
| Thermometry, Part 1 of 2 | Jasmine Gilmore, Quality Analyst, AASHTO re:source  
Great Room I, II, & III          |
| Navigating Technician Certification Requirements | Amy Reed, Quality Analyst, AASHTO re:source  
Great Room I, II, & III          |
| 3:00 p.m.–4:30 p.m. | **BREAKOUT SESSIONS ROUND D**          |
| Corrective Action | Benjamin Trujillo, Owner/Operator, Integrated Quality Analysts, AASHTO re:source  
Great Room I, II, & III          |
| Thermometry, Part 2 of 2 | Jasmine Gilmore, Quality Analyst, AASHTO re:source  
Great Room VI, VII, & VIII          |
| Contractor Quality Control for FAA Projects | Dale S. Decker, Owner/Operator, Dale S. Decker, LLC  
Shutters East I & II          |
Wednesday, March 14

Registration is open from 7:00 a.m.–5:00 p.m. in the South Foyer of the hotel. Exhibitors will be available starting at 7:00 a.m. in the Southwest Foyer

7:00 a.m.–8:00 a.m.
Gallery
Breakfast

8:00 a.m.–9:30 a.m.
BREAKOUT SESSIONS ROUND E

Corrective Action
Benjamin Trujillo, Owner/Operator, Integrated Quality Analysts, AASHTO re:source
Great Room I, II, & III

Maria Knake, Manager, Laboratory Assessment Program, AASHTO re:source
Shutters East I & II

The Seven Ingredients for Effective Internal Audits
Tracy Barnhart, Quality Manager, AASHTO re:source
Robert Lutz, Manager, AASHTO re:source
Great Room VI, VII, & VIII

9:30 a.m.–10:00 a.m.
Southwest Foyer
Break

10:00 a.m.–Noon
BREAKOUT SESSIONS ROUND F

Understanding Equipment Calibration, Standardization, Check, and Maintenance
Jim Wesselhoff, Laboratory Assessor, AASHTO re:source
Great Room VI, VII, & VIII

Maria Knake, Manager, Laboratory Assessment Program, AASHTO re:source
Shutters East I & II

Lab Manager 101
Tom Taylor, Principal/Director of Laboratory Services, Specialized Engineering
Great Room I, II, & III

Noon–1:00 p.m.
Gallery
Lunch

1:00 p.m.–2:30 p.m.
BREAKOUT SESSIONS ROUND G

AASHTO R 18 and ISO/IEC 17025
Tracy Barnhart, Quality Manager, AASHTO re:source
Brian Johnson, Manager, AASHTO Accreditation Program, AASHTO re:source
Great Room VI, VII, & VIII

Proficiency Sample Reports Explained
John Malusky, Manager, Proficiency Sample Program, AASHTO re:source
Shutters East I & II

Navigating Technician Certification Requirements
Amy Reed, Quality Analyst, AASHTO re:source
Great Room I, II, & III

2:30 p.m.–3:00 p.m.
Southwest Foyer
Break

3:00 p.m.–4:30 p.m.
BREAKOUT SESSIONS ROUND H

Accreditation 101
Brian Johnson, Manager, AASHTO Accreditation Program, AASHTO re:source
Shutters East I & II

Quality Manager 101
Benjamin Trujillo, Owner/Operator, Integrated Quality Analysts, AASHTO re:source
Great Room I, II, & III

How to Make Your QMS Your Best Investment
Marshall Doyle, Owner/President, Cal-Cert
Great Room VI, VII, & VIII

Thursday, March 15

Registration is open from 7:00 a.m.–10:00 a.m. in the South Foyer of the hotel. Exhibitors will be available starting at 7:00 a.m. until Noon in the Southwest Foyer

7:00 a.m.–8:00 a.m.
Southwest Foyer
Breakfast with Exhibitors

8:00 a.m.–9:30 a.m.
BREAKOUT SESSIONS ROUND I

Deconstructing ASTM E329
Brian Johnson, Manager, AASHTO Accreditation Program, AASHTO re:source
Great Room IV & V

9:30 a.m.–10:00 a.m.
Southwest Foyer
Break

10:00 a.m.–Noon
CLOSING PLENARY SESSION

Q&A
2019 Technical Exchange Planning/Brainstorming Meeting/Prize Drawings
Moderated by AASHTO re:source staff
Great Room IV & V

2:00 p.m.–5:00 p.m.
COUNCIL MEETING

AASHTO re:source Customer Council Meeting (by invitation only)
Shutters East I & II

Wi-Fi Access
Network: DoubleTree Meeting SSID
Password: AASHTO2018 (case sensitive)
AASHTO re:source is part of the Engineering and Technical Services division of AASHTO (American Association of State Highway and Transportation Officials), an international leader in setting technical standards for all phases of highway system development. The primary vision of AASHTO re:source is to be the center for promoting quality and achievement of excellence in construction materials testing (CMT). We provide services and tools through our three major programs: the Laboratory Assessment Program (LAP), the Proficiency Sample Program (PSP), and the AASHTO Accreditation Program (AAP). Through these activities, we evaluate testing competency, promote continual improvement, and instill confidence in the laboratories and specifiers that use our programs.

Social Media Guide for AASHTO re:source Technical Exchange

TWITTER
@aashtoresource
Follow AASHTO re:source for the latest meeting information and developments.
#resourceTechEx
Use this hashtag to join and track Twitter conversations related to the meeting.

ATTENDEE ROSTER
http://www.cvent.com/d/7tq9b8/3A
Browse the online attendee list. The roster will only be available electronically.

SESSION RESOURCES and HANDOUTS
Due to the proprietary nature of the meeting presentations, the presentations will NOT be made available to attendees after the sessions or on the event website.

EXHIBITOR BINGO
Thank you to our sponsors and exhibitors for their generous support of the Technical Exchange. We encourage each attendee to visit with each sponsor and exhibitor during the networking breaks and throughout the meeting. By visiting with exhibitors, each attendee has the opportunity to win one of three $50 Amazon gift cards. To be eligible to win, you must acquire a stamp from each sponsor exhibitor display for your bingo card. All entries must be returned to the AASHTO re:source booth by 9:30 a.m. on Thursday, March 15. Prize drawings will be held at the Q&A/Planning session on Thursday morning. Must be present to win. Exhibitors, sponsors, AASHTO staff, and CCRL staff are not eligible to win prizes.

GRAND PRIZE DRAWING (Please pick-up your ticket at the AASHTO re:source booth.)
Each attendee will receive one ticket for the grand prize drawing of an Amazon Fire HD 10 tablet with Alexa hands-free. The grand prize drawing will be held at the Q&A/Planning session on Thursday, March 15. All tickets must be returned to the AASHTO re:source booth by 9:30 a.m. on Thursday, March 15. Must be present to win. Exhibitors, sponsors, AASHTO staff, and CCRL staff are not eligible to win prizes.
Effective Management Reviews
Great Room I, II, & III
Led by Tracy Barnhart, AASHTO re:source: An in-depth explanation of management reviews and how they differ from the seven ingredients for effective internal audits. Learn how to effectively implement management reviews for maximum benefit to your organization, and see how AASHTO re:source handles its own management reviews.

Standards Development and You
Shutters East I & II
Led by Maria Knake, AASHTO re:source: An in-depth examination of the AASHTO and ASTM standards development and balloting processes. By the end of this session, attendees will be able to explain the basic principles behind consensus standard development and understand how to get involved in standards development with ASTM and AASHTO.

ASTM C511—Understanding Curing Facilities Requirements
Great Room VI, VII, & VIII
Led by Megan Karr, AASHTO re:source, and Guy Trease, CCRL: This session will provide information on the importance of proper curing controls for testing hydraulic cements and concretes. Attendees will have a better understanding of curing requirements through the review of common on-site assessment findings. Tips for maintaining your curing facility and avoiding these mistakes will also be discussed.

Lab Manager 101
Great Room I, II, & III
Led by Tom Taylor, Specialized Engineering: This session will focus on the attributes of a productive and knowledgeable laboratory manager. Management and development of staff, and tips for getting the most out of them, will be explored. Understanding the importance of material sampling and sample preparation will also be discussed.

Understanding Equipment Calibration, Standardization, Check, and Maintenance
Great Room VI, VII, & VIII
Led by Jim Wesselhoff, AASHTO re:source: This interactive workshop will include example scenarios and hands-on demonstrations of equipment used by AASHTO re:source during on-site assessments. By the end of the course, attendees will be able to (1) understand the purpose of and key differences between C/S/C/M, and (2) evaluate and establish C/S/C/M intervals, including factors to consider when establishing intervals.

Aggregate Management for Asphalt Mixtures
Shutters East I & II
Led by Dale Decker, Dale S. Decker, LLC: Ninety-five percent of asphalt mixtures is aggregate. This session focuses on (1) the fundamental aggregate properties that are critical to mix performance, and (2) proper handling of the material to ensure uniformity of the asphalt mixture. Attendees will learn what aggregate test results mean, the importance of using good aggregate in the mix, and how aggregate should be managed in the plant to ensure uniformity.

Soil Classification
Shutters East I & II
Led by Nicole Butkus, AASHTO re:source: This hands-on workshop is intended for those with working knowledge of soil classification and will include a discussion of commonly used soil classification methods (ASTM D2487, D2488 and AASHTO M 145). Recognize the importance of soil classification to site investigations, distinguish the differences between silt and clay, and produce high-quality site investigation reports.
1:00 p.m.–2:30 p.m.
**Thermometry, Part 1 of 2**
*Great Room VI, VII, & VIII*
Led by Jasmine Gilmore and Maria Knake, AASHTO re:source: This workshop will include a discussion of the construction, limitations, and proper use of each type of thermometer available in today’s market. By the end of this session, attendees will be able to (1) understand how liquid-in-glass, dial stem, and digital thermometers work, (2) select the proper reference and/or working thermometer for application, (3) understand the calibration/standardization requirements for working and reference thermometers, and (4) understand the requirements of the AASHTO Accreditation Policy and Guidance on Thermometers document.

1:00 p.m.–2:30 p.m.
**Navigating Technician Certification Requirements**
*Great Room I, II, & III*
Led by Amy Reed, AASHTO re:source: This workshop is designed to communicate the importance of technician certifications and the requirements of ASTM quality management system standards C1077, D3666, D3740, and E329. We will break into small groups to evaluate relevant certifications in your area of the country and discuss how to determine if a certification will meet the certification requirements for a quality management system standard.

3:00 p.m.–4:30 p.m.
**Corrective Action**
*Great Room I, II, & III*
Led by Benjamin Trujillo, Integrated Quality and AASHTO re:source Quality Analysts: Corrective action can be an efficient and meaningful process, not just a reaction to contain the results of a mistake or process failure. This workshop will walk attendees through the important steps of the corrective action process, including root-cause analysis. Several tools will be introduced during the discussion phase of the workshop. Attendees will then form teams to practice, utilizing the information and tools covered to analyze and address example corrective action scenarios related to laboratory work. Finally, the workshop will discuss how to effectively utilize these tools when responding to AASHTO re:source and CCRL assessment nonconformities.

3:00 p.m.–4:30 p.m.
**Thermometry, Part 2 of 2**
*Great Room VI, VII, & VIII*
Led by Jasmine Gilmore and Maria Knake, AASHTO re:source: This workshop will include a discussion of the construction, limitations, and proper use of each type of thermometer available in today’s market. By the end of this session, attendees will be able to (1) understand how liquid-in-glass, dial stem, and digital thermometers work, (2) select the proper reference and/or working thermometer for application, (3) understand the calibration/standardization requirements for working and reference thermometers, and (4) understand the requirements of the AASHTO Accreditation Policy and Guidance on Thermometers document.

3:00 p.m.–4:30 p.m.
**Contractor Quality Control for FAA Projects**
*Shutters East I & II*
Led by Dale Decker, Dale S. Decker, LLC: This session provides insight for the contractor on how to manage an FAA project to achieve the required quality. It is important to understand the specifications and what is required to achieve the specifications. Attendees will learn the differences between DOT and FAA specifications, how PWL impacts the production of asphalt mixtures, and how to enforce reasonableness into the specification.

**WEDNESDAY, MARCH 14**

8:00 a.m.–9:30 a.m.
**Corrective Action**
*Great Room I, II, & III*
Led by Benjamin Trujillo, Integrated Quality and AASHTO re:source Quality Analysts: Corrective action can be an efficient and meaningful process, not just a reaction to contain the results of a mistake or process failure. This workshop will walk attendees through the important steps of the corrective action process, including root cause analysis. Several tools will be introduced during the discussion phase of the workshop. Attendees will then form teams to practice, utilizing the information and tools covered to analyze and address example corrective action scenarios related to laboratory work. Finally, the workshop will discuss how to effectively utilize these tools when responding to AASHTO re:source and CCRL derived nonconformances.
8:00 a.m.–9:30 a.m.
**Best Practices for Utilizing a Calibration Agency, Part 1 of 2**
*Shutters East I & II*
Led by Maria Knake, AASHTO re:source: Evaluate and select potential external calibration agencies, and analyze calibration reports to determine the impact of the data on your testing laboratory. By the end of this session attendees will be able to (1) develop a procedure for selecting a competent calibration laboratory, (2) understand how the capabilities of the calibration laboratory impact a testing laboratory, (3) create a review system for calibration records from outside agencies, and (4) understand how to apply calibration data to testing practices.

8:00 a.m.–9:30 a.m.
**The Seven Ingredients for Effective Internal Audits**
*Great Room VI, VII, & VIII*
Led by Tracy Barnhart and Robert Lutz, AASHTO re:source: The importance and benefits of conducting the seven ingredients for effective internal audits will be explored, including the focus on continual improvement. Learn the skills needed to be an effective and successful auditor with the use of interactive exercises during this workshop.

10:00 a.m.–Noon
**Understanding Equipment Calibration, Standardization, Check, and Maintenance (C/S/C/M)**
*Great Room VI, VII, & VIII*
Led by Jim Wesselhoff, AASHTO re:source: This interactive workshop will include example scenarios and hands-on demonstrations of equipment used by AASHTO re:source during on-site assessments. By the end of the course, attendees will be able to (1) understand the purpose of and key differences between C/S/C/M, and (2) evaluate and establish C/S/C/M intervals, including factors to consider when establishing intervals.

10:00 a.m.–Noon
**Best Practices for Utilizing a Calibration Agency, Part 2 of 2**
*Shutters East I & II*
Led by Maria Knake, AASHTO re:source: Evaluate and select potential external calibration agencies, and analyze calibration reports to determine the impact of the data on your testing laboratory. By the end of this session attendees will be able to (1) develop a procedure for selecting a competent calibration laboratory, (2) understand how the capabilities of the calibration laboratory impact a testing laboratory, (3) create a review system for calibration records from outside agencies, and (4) understand how to apply calibration data to testing practices.

10:00 a.m.–Noon
**Lab Manager 101**
*Great Room I, II & III*
Led by Tom Taylor, Specialized Engineering: This session will focus on the attributes of a productive and knowledgeable laboratory manager. Management and development of staff, and tips for getting the most out of them, will be explored. Understanding the importance of material sampling and sample preparation will also be discussed.

1:00 p.m.–2:30 p.m.
**AASHTO R 18 and ISO/IEC 17025**
*Great Room VI, VII, & VIII*
Led by Brian Johnson and Tracy Barnhart, AASHTO re:source: AASHTO R 18 will be explored through discussions about requirements and best practices. The requirements for ISO/IEC 17025 accreditation through the AASHTO Accreditation Program will also be explained, including a discussion of the benefits of compliance with the standard and key differences between ISO/IEC 17025 and AASHTO R 18. Attendees will (1) understand some commonalities between AASHTO R 18 and ISO/IEC 17025, (2) share common misunderstandings related to R 18 requirements, and (3) suggest improvements to the wording in R 18.

1:00 p.m.–2:30 p.m.
**Proficiency Sample Reports Explained**
*Shutters East I & II*
Led by John Malusky, AASHTO re:source: Intended for those individuals who evaluate their laboratory’s proficiency sample ratings sheets, scatter plots, and performance charts. In addition, attendees will be provided information to calculate ratings, pinpoint changes in performance, and evaluate data to help complete corrective action reports and internal investigations. Also, attendees will be offered a Q&A session to help demystify the sample program and be provided with insight into our production process.
1:00 p.m.–2:30 p.m.
**Navigating Technician Certification Requirements**
*Great Room I, II, & III*
Led by **Amy Reed**, AASHTO re:source: This workshop is designed to communicate the importance of technician certifications and the requirements of ASTM quality management system standards C1077, D3666, D3740, and E329. We will be breaking into small groups to evaluate relevant certifications in your area of the country and discuss how to determine if a certification will meet the certification requirements for a quality management system standard.

3:00 p.m.–4:30 p.m.
**Accreditation 101**
*Shutters East I & II*
Led by **Brian Johnson**, AASHTO re:source: Attendees will learn the most effective way to participate in the AASHTO Accreditation Program. This session will include discussions about common problems and misunderstandings that occur with the accreditation program so that attendees can learn how to easily avoid suspensions and lapses in accreditation. Attendees will learn effective ways to submit complete corrective actions and understand the accreditation process.

3:00 p.m.–4:30 p.m.
**Quality Manager 101**
*Great Room I, II, & III*
Led by **Benjamin Trujillo**, Integrated Quality: For those who are new to the role of Quality Manager in their organization and want to better understand their role, this session will present Quality Manager responsibilities associated with successful implementation of the AASHTO R 18 quality standard and associated ASTMs (e.g., C1077, D3666, D3740, E329). Some major topics to be discussed are: (1) establishing and managing a quality management system, (2) confirming training and qualification of personnel, (3) managing measuring and test equipment, and (4) communicating quality issues to management.

3:00 p.m.–4:30 p.m.
**How to Make Your QMS Your Best Investment**
*Great Room VI, VII, & VIII*
Led by **Marshall Doyle**, Cal-Cert: This workshop will show you how to change the perception of your quality management system (QMS) from a cost center to your best profit center. You will explore ways to increase your revenue and boost your profit by diving deep into several requirements found in AASHTO R 18 and ISO/IEC 17025. Your QMS can create opportunities for increased reputation, efficiency, and accountability and reduce the cost of management. Marshall will share how he trains and mentors his staff at Cal-Cert to use their QMS to make decisions, increase customer satisfaction, and enhance their reputation as the leading calibration provider in the construction materials testing industry.

THURSDAY, MARCH 15

8:00 a.m.–9:30 a.m.
**Deconstructing ASTM E329**
*Great Room IV & V*
Led by **Brian Johnson**, AASHTO re:source: Learn more about some of the more challenging, confusing, and seemingly pointless requirements of this standard. Attendees will understand how E329 requirements are evolving and will learn how to participate in future E329 requirement development in ASTM.

10:00 a.m.–Noon
**Closing Plenary Session—Q&A/2019 Technical Exchange Brainstorming Meeting**
*Great Room IV & V*
We’re going to flip the script for the closing session and put the microphone in your hands. We want to hear from you, so we will conduct a question-and-answer session. Ask about our programs, pose a technical or quality management system question, and get answers from your peers. We will follow that with a brainstorming session for next year’s Technical Exchange. Do you have an idea for a topic? Would you like to be a guest instructor? Your ideas are important to us. Don’t leave early—we will have drawings for prizes as well!
Tracy Barnhart, CQA, CCT  
Quality Manager  
AASHTO re:source, Frederick, MD

Tracy has been with AASHTO re:source for 28 years, serving as Quality Manager since 2006. She has also been a Laboratory Assessor, Quality Analyst, and Assistant Program Supervisor. Tracy is responsible for ensuring that AASHTO re:source’s quality management system is maintained in accordance with the requirements of ISO 9001 and ISO/IEC 17043, for which AASHTO re:source is currently certified/accredited. Tracy also manages the ISO/IEC 17025 assessment and accreditation programs at AASHTO re:source. She is a graduate of the University of Pittsburgh and holds a B.S. degree in Geology.

- AASHTO R 18 and ISO/IEC 17025
- The Seven Ingredients for Effective Internal Audits
- Effective Management Reviews

Nicole Butkus  
Laboratory Assessor  
AASHTO re:source, Frederick, MD

Nicole has worked in the construction industry for more than six years after earning a B.S. in Geology from the University of Wisconsin. For almost two years, she worked as a field geologist on oil and gas rigs in Oklahoma. Since 2014, Nicole has worked as a Laboratory Assessor for AASHTO re:source. Outside of her primary duties, she leads a team in developing an in-house wiki, develops ways to improve training for soils testing, and participates in ASTM.

- Soil Classification

Dale S. Decker, P.E.  
Owner, Operator  
Dale S. Decker, LLC, Eagle, CO

Dale has been working in the construction materials field since 1970. He has worked for testing labs, research centers, associations, materials suppliers, and for the past 17 years has owned and operated an engineering consulting firm (Dale S. Decker, LLC). Dale primarily works for contractors in troubleshooting, training, and expert witness arenas. He is a registered professional engineer and has B.S. and M.S. degrees in Civil Engineering from the University of Kentucky.

- Aggregate Management for Asphalt Mixtures
- Contractor Quality Control for FAA Projects

Marshall Doyle  
Owner, President  
Cal-Cert, Portland, OR area

Marshall has been the President and owner of Cal-Cert, an ISO/IEC 17025 accredited calibration laboratory, for almost 20 years. He has grown this business over 1,500 percent since purchasing it in 1999. This growth involved writing a quality management system to meet ISO/IEC 17025 and implementing it throughout the company. He transformed Cal-Cert’s field calibration business service in Oregon and Washington to a national service provider which currently has market share in 42 states and numerous international locations. Under Marshall’s leadership Cal-Cert provides accredited calibrations to numerous industries such as construction materials, departments of transportation laboratories, wood products, university engineering labs, aviation, and manufacturing companies. Cal-Cert employs 32 calibration technicians throughout the United States.

- How to Make Your QMS Your Best Investment

Jasmine Gilmore  
Quality Analyst  
AASHTO re:source, Frederick, MD

Jasmine is a Bowie State University graduate, with a B.S. in Biology. In January 2014, she joined AASHTO re:source as a Laboratory Assessor. In 2015, Jasmine joined the AASHTO Accreditation Program team as a Quality Analyst. Jasmine is heavily involved with developing thermometer policies and training. Jasmine has been the lead of the AASHTO re:source Thermometer Committee since 2015.

- Corrective Action
- Thermometry
Moe Jamshidi, P.E.
Deputy Director-Operations
Nebraska DOT, Lincoln, NE

Mostafa (Moe) has been involved in the design and construction of transportation projects for over 30 years. He is currently serving as the Nebraska Department of Transportation’s (NDOT) Deputy Director for Operations. He coordinates the activities of all eight Districts and four Divisions including Materials and Research, Construction, Operations, and intermodal Planning Divisions. Moe is a member of AASHTO’s Council on Highways and Streets and serves as the Chair of the Subcommittee on Materials on Pavements. He has served as the NDOT’s Materials and Research Engineer, Assistant Bridge Engineer, Structural Engineer, Geotechnical Engineer, and Construction Project Manager. He is a graduate of the University of Nebraska Omaha with a degree in Civil Engineering and is a registered professional engineer in the state of Nebraska.

• Keynote Speaker, Opening Plenary Session

Brian Johnson
Manager, AASHTO Accreditation Program
AASHTO re:source, Frederick, MD

Brian is the AASHTO Accreditation Program Manager at AASHTO re:source, where he manages a team of eight Quality Analysts. Brian graduated from Pennsylvania State University in 1998 and started his career at AASHTO as a Laboratory Assessor the same year. He maintains a charismanship in ASTM D04 and is heavily involved in both AASHTO and ASTM standards development activities.
• AASHTO R 18 and ISO/IEC 17025
• Accreditation 101
• Deconstructing ASTM E329

Megan Karr
Quality Analyst
AASHTO re:source, Frederick, MD

Megan is a graduate of the Pennsylvania State University with a B.S. degree in Chemical Engineering. She has been with AASHTO re:source since 2014 as a Quality Analyst for the AASHTO Accreditation Program. Prior to this, Megan worked for the Cement and Concrete Reference Laboratory as a Laboratory Inspector.
• ASTM C511—Understanding Curing Facilities Requirements

Maria Knake
Manager, Laboratory Assessment Program
AASHTO re:source, Frederick, MD

Maria is the Manager of the Laboratory Assessment Program at AASHTO re:source and has been with AASHTO since 2005. She has a B.S. degree in Civil Engineering from Michigan Technological University, with a Concentration in Pavement Design, Construction, and Materials. Maria is heavily involved with standards development, serving as the staff liaison for Technical Section 2b on Asphalts for AASHTO’s Committee on Materials and Pavements. She is also an active member of ASTM International and currently serves as the Group IV Sub Vice Chair for Committee D04 on Road and Paving Materials.
• Best Practices for Utilizing a Calibration Agency
• Standards Development and You
• Thermometry

Steven Lenker, P.E.
Director
AASHTO re:source, Frederick, MD

Steven is the Director of the Construction Materials Reference Laboratories (AASHTO re:source and the Cement and Concrete Reference Laboratory (CCRL)). He previously served as the Vice President of Engineering and Operations at the National Stone, Sand and Gravel Association (NSSGA) where he was responsible for the Association’s administrative and technical activities. Steve is a graduate of Virginia Polytechnic Institute and State University and holds a B.S. degree in Materials Engineering.

• Opening Plenary Session

Robert Lutz
Manager
AASHTO re:source, Frederick, MD

Bob is an engineering graduate of Lafayette College in Easton, Pennsylvania and has worked for AASHTO since 1989 in a variety of roles—Laboratory Assessor, Assistant Program Supervisor, Manager of the AASHTO Accreditation Program, and now as the Manager of AASHTO re:source, one of AASHTO’s largest technical-service programs.
• The Seven Ingredients for Effective Internal Audits
John Malusky  
Manager, Proficiency Sample Program  
AASHTO re:source, Frederick, MD  
John is the Program Manager for the AASHTO re:source Proficiency Sample Program, where he develops sample schemes, performs design, homogeneity, and stability testing, and conducts data analysis for the program. He has been with AASHTO re:source for over 10 years. Prior to his current role, John was a Laboratory Assessor and Quality Analyst for AASHTO re:source. John holds a B.S. degree in Biology and Environmental Science as well as an Associate degree in Chemistry from Mansfield University of Pennsylvania.

- Proficiency Sample Reports Explained

Amy Reed  
Quality Analyst  
AASHTO re:source, Frederick, MD  
Amy is a graduate of Frostburg State University where her studies focused on Earth Science. She has been an employee at AASHTO re:source since 2012 and a Quality Analyst for the past three and a half years. Amy has led the Certification Exam Review Team at AASHTO re:source since 2015.

- Corrective Action
- Navigating Technician Certification Requirements

Tom Taylor, P.E.  
Principal  
Director of Laboratory Services  
Specialized Engineering  
Frederick, MD  
Tom is the Laboratory Director for two material testing laboratories that have been AASHTO and WACEL accredited and Army Corps of Engineers validated for the past 11 years. He has experience in the CMT field as an inspector, supervisor, and manager. Tom holds NICET, WACEL, MARTCP, and ACI certifications in nine different areas and is currently NICET Level IV Asphalt and Concrete, Soil Level III.

- Lab Manager 101

Guy Trease  
Operations Manager  
CCRL (Cement and Concrete Reference Laboratory), Frederick, MD  
Guy joined CCRL in April 2002. He has conducted over 500 CCRL laboratory inspections and is currently the Operations Manager of CCRL’s Laboratory Inspector Program. Guy is a graduate of Purdue University with a B.S. degree in Electrical Engineering.

- ASTM C511—Understanding Curing Facilities Requirements

Benjamin Trujillo, CQA, COIA  
Owner  
Integrated Quality  
Albuquerque, NM  
Benjamin has more than 15 years’ experience in the quality management field, focused on designing, implementing, and auditing quality management systems for organizations engaged in commercial and nuclear design and construction projects. In this capacity, he has worked with design agencies, testing laboratories, special inspection agencies, and construction management firms. He has designed and implemented quality programs to meet a number of design and construction related quality standards; notably AASHTO R18, ASME NQA-1, ISO 17025, ISO 9001, and IAS AC291. He currently serves as the Chair for the Design and Construction Division of the American Society for Quality.

- Corrective Action
- Quality Manager 101

Jim Wesselhoff  
Laboratory Assessor  
AASHTO re:source, Frederick, MD  
Jim is a Morgan State University graduate with a B.S. in Civil Engineering. He joined AASHTO re:source in August 2016 as a Laboratory Assessor after retiring from the state of Maryland Department of Transportation, where he was employed for 36 years. During his first 12 years of employment with Maryland, Jim was an Engineering Technician in the Office of Materials and Research. While there, he worked on a rotational basis in the aggregate, asphalt, cement, general (iron and steel), and soils testing sections of the laboratory. Jim is currently a member of the AASHTO re:source Calibration and Measurement Committee.

- Understanding Equipment Calibration, Standardization, Check, and Maintenance
EASY TO USE
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A web-based application that manages your Quality Management System following the guidelines of AASHTO R18 featuring intuitive setup, complete quality management, email notifications, remote access for assessors and inspectors plus unlimited multi-user access.

R18LabQMS.com
The AASHTO Materials Standards (formally titled, Standard Specifications for Transportation Materials and Methods of Sampling and Testing, and the AASHTO Provisional Standards), are now available to purchase in a series of 17 subject–matter compilations, available in both print and as downloadable PDFs. These individual compilations allow us to better meet the needs of transportation and highway engineers to access the Materials Standards both in the lab, as well as in the field.

Below is the list of the 17 subject–matter compilations. For more information or to purchase copies, visit the AASHTO Bookstore online at bookstore.transportation.org, and search by the item code provided below.

- **AGGREGATES**
  37 Specifications/Test Methods
  Item Code: HMAGGR-17

- **BITUMINOUS MATERIALS**
  130 Specifications/Test Methods
  Item Code: HMBITUM-17

- **BOX CULVERT, CULVERT PIPE, AND DRAIN PIPE**
  44 Specifications/Test Methods
  Item Code: HMBOXPIPE-17

- **CONCRETE, CURING MATERIALS, AND DRAIN TILE**
  67 Specifications/Test Methods
  Item Code: HMCONCR-17

- **ENVIRONMENTAL TESTS**
  2 Specifications/Test Methods
  Item Code: HMENVTEST-17

- **GUARDRAIL AND FENCING**
  6 Specifications/Test Methods
  Item Code: HMGUARD-17

- **HYDRAULIC CEMENT**
  23 Specifications/Test Methods
  Item Code: HMHYDR-17

- **JOINT FILLER AND ASPHALT PLANK**
  116 Specifications/Test Methods
  Item Code: HMJOINT-17

- **METALLIC MATERIALS FOR BRIDGES**
  30 Specifications/Test Methods
  Item Code: HMMetal-17

- **MISCELLANEOUS**
  18 Specifications/Test Methods
  Item Code: HMMisc-17

- **PAINTING, TRAFFIC MARKING, AND SIGNING**
  15 Specifications/Test Methods
  Item Code: HMPaint-17

- **PAVEMENT SURFACE AND STRUCTURE CHARACTERISTICS**
  24 Specifications/Test Methods
  Item Code: HMPave-1

- **QUALITY ASSURANCE**
  8 Specifications/Test Methods
  Item Code: HMQual-17

- **REINFORCING STEEL AND WIRE ROPE**
  13 Specifications/Test Methods
  Item Code: HMReinf-17

- **SOILS AND STABILIZATION**
  70 Specifications/Test Methods
  Item Code: HMSoil-17

- **TESTING EQUIPMENT**
  8 Specifications/Test Methods
  Item Code: HMTestEq-17

- **TIMBER AND PRESERVATIVES**
  2 Specifications/Test Methods
  Item Code: HMTimber-17

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Next Web-Based Edition Update: April 13th!
2018 AASHTO re:source Technical Exchange
Professional Development Hours (PDH) Tracker

To be eligible to receive PDHs, check off the sessions you attended, tear out and return your completed form to the meeting registration desk after your last session. You must also sign-in at each session attended. Attendees will only receive PDHs for one session per time slot. AASHTO re:source will email PDH certificates to you within four weeks.

<table>
<thead>
<tr>
<th>DATE/TIME</th>
<th>SESSION</th>
<th>PDH</th>
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<tbody>
<tr>
<td>Tuesday, March 13, 2018</td>
<td>Effective Management Reviews</td>
<td>1</td>
</tr>
<tr>
<td>8:45 a.m.–9:30 a.m.</td>
<td>Standards Development and You</td>
<td>1</td>
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<tr>
<td>8:45 a.m.–9:30 a.m.</td>
<td>ASTM C511—Understanding Curing Facilities Requirements</td>
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<tr>
<td>10:00 a.m.–noon</td>
<td>Lab Manager 101</td>
<td>2</td>
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<tr>
<td>10:00 a.m.–noon</td>
<td>Understanding Equipment Calibration, Standardization, Check, and Maintenance</td>
<td>2</td>
</tr>
<tr>
<td>10:00 a.m.–noon</td>
<td>Aggregate Management for Asphalt Mixtures</td>
<td>2</td>
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<tr>
<td>1:00 p.m.–2:30 p.m.</td>
<td>Soil Classification</td>
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</tr>
<tr>
<td>1:00 p.m.–2:30 p.m.</td>
<td>Navigating Technician Certification Requirements</td>
<td>1.5</td>
</tr>
<tr>
<td>1:00 p.m.–4:30 p.m.</td>
<td>Thermometry (Parts 1 and 2)</td>
<td>3</td>
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<tr>
<td>3:00 p.m.–4:30 p.m.</td>
<td>Corrective Action</td>
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</tr>
<tr>
<td>3:00 p.m.–4:30 p.m.</td>
<td>Contractor Quality Control for FAA Projects</td>
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<td>Wednesday, March 14, 2018</td>
<td>Corrective Action</td>
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<td>8:00 a.m.–9:30 a.m.</td>
<td>The Seven Ingredients for Effective Internal Audits</td>
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<tr>
<td>8:00 a.m.–noon</td>
<td>Best Practices/Calibration Agencies (Part 1 and 2)</td>
<td>3.5</td>
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<tr>
<td>10:00 a.m.–noon</td>
<td>Understanding Equipment Calibration, Standardization, Check, and Maintenance</td>
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<td>10:00 a.m.–noon</td>
<td>Lab Manager 101</td>
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<td>AASHTO R 18 &amp; ISO/IEC 17025</td>
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<tr>
<td>1:00 p.m.–2:30 p.m.</td>
<td>Proficiency Sample Reports Explained</td>
<td>1.5</td>
</tr>
<tr>
<td>1:00 p.m.–2:30 p.m.</td>
<td>Navigating Technician Certification Requirements</td>
<td>1.5</td>
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<tr>
<td>3:00 p.m.–4:30 p.m.</td>
<td>Accreditation 101</td>
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<td>Quality Manager 101</td>
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<tr>
<td>3:00 p.m.–4:30 p.m.</td>
<td>How to Make Your QMS Your Best Investment</td>
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<tr>
<td>Thursday, March 15, 2018</td>
<td>Deconstructing ASTM E329</td>
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TOTAL HOURS

Print Name: ____________________________
Company: ____________________________
Signature: ____________________________