The DeSoto Hotel Floor Plan
AASHTO re:source would like to thank all of the exhibitors and sponsors for their support of our event.

Their support contributes greatly to the success of the 2019 Technical Exchange.
### Agenda at a Glance

<table>
<thead>
<tr>
<th>Time</th>
<th>Monday (March 11)</th>
<th>Tuesday (March 12)</th>
<th>Wednesday (March 13)</th>
<th>Thursday (March 14)</th>
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<tr>
<td>7:00 AM - 8:00 AM</td>
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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/3bgqy9/3A
Browse the online attendee list. The roster will only be available electronically.

Session Presentations
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 Trivia Contest
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, visit all the exhibitors and discuss the answers to the exhibitor questions. Once you learn the answer from the exhibitor, write the answer in your passbook. Important: The exhibitor must sign or stamp your passbook to validate your answer and confirm your interaction. Once you have completed the passbook, drop it off at the AASHTO re:source booth by 9:30 a.m. on Thursday, March 14. 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 table.)
Each attendee will receive one ticket for the grand prize drawing of a set of Sennheiser noise-cancelling headphones ($200 value). The grand prize drawing will be held at the Q&A/Planning session on Thursday morning. All tickets must be returned to the AASHTO re:source booth by 9:30 a.m. on Thursday, March 14. Must be present to win. Exhibitors, sponsors, AASHTO staff, and CCRL staff are not eligible to win prizes.

Professional Development Hours (PDHs)
In order to track your attendance at sessions, staff will be scanning your badge as you enter sessions. By scanning your badge, we can digitally record your attendance. However, it is up to you to make sure you get scanned in at each session you attend. You will receive credit for one session per time slot. Keep your PDH tracking sheet (located in this program) for your own records. You do not need to return the tracking sheet to AASHTO re:source. PDH certificates will be emailed to you within four weeks.
**Monday, March 11**

<table>
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<tr>
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<tr>
<td>8:00 a.m.–Noon</td>
<td>AASHTO Steering Committee Meeting (by invitation only)</td>
</tr>
<tr>
<td>1:00 p.m.–5:00 p.m.</td>
<td>AASHTO Administrative Task Group Meeting (by invitation only)</td>
</tr>
<tr>
<td>1:00 p.m.–4:30 p.m.</td>
<td>Thermometry (Jasmine Gilmore and Sonya Puterbaugh, AASHTO re:source)</td>
</tr>
<tr>
<td>5:30 p.m.–7:00 p.m.</td>
<td>Icebreaker Reception (all attendees welcome)</td>
</tr>
</tbody>
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**Agenda**

**10:30 a.m.–Noon**  **BREAKOUT SESSIONS B**

- **Accreditation 101**
  - Brian Johnson, AASHTO re:source
  - Cumberland Ballroom
- **Common Misconceptions & Mistakes in Asphalt Binder Testing**
  - Mike Anderson, Asphalt Institute
  - Pulaski Room
- **Proficiency Sample Program (PSP) Reports Explained**
  - John Malusky, AASHTO re:source
  - Ossabaw Ballroom
- **Break**

**Tuesday, March 12**

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<thead>
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<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 a.m.–7:45 a.m.</td>
<td>Breakfast</td>
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<tr>
<td>8:00 a.m.–8:45 a.m.</td>
<td>Opening Remarks: Tracy Barnhart and Steve Lenker, AASHTO re:source Keynote Speaker: Georgene Geary, GIGA Engineering, LLC</td>
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<tr>
<td>8:45 a.m.–9:00 a.m.</td>
<td>Short Break</td>
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<tr>
<td>9:00 a.m.–10:00 a.m.</td>
<td><strong>BREAKOUT SESSIONS A</strong></td>
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</table>
| Management Review—Your “State of the Laboratory” Address | Tracy Barnhart, AASHTO re:source
| Cumberland Ballroom | LIMS (Laboratory Information Management Systems)                        |
| Kelly Cook and John Yzenas, Edw. C. Levy Co. | Pulaski Room
| Measurement Uncertainty 101 | Robert Lutz, AASHTO re:source
| Ossabaw Ballroom | 10:00 a.m.–10:30 a.m. **Break**                                        |

**Agenda**

**10:00 a.m.–Noon**

- **Correctional Action**
  - Benjamin Trujillo, Integrated Quality; Jasmine Gilmore, and Amy Reed, AASHTO re:source
  - Cumberland Ballroom
- **Understanding the USCS (Unified Soil Classification System)**
  - Nicole Butkus, AASHTO re:source
  - Pulaski Room
- **Women in Engineering Panel**
  - Moderator: Georgene Geary, GIGA Engineering, LLC
  - Panelists: Kelly Cook, Edw. C. Levy Co.; Anne Glubis, Wood/Amec Foster Wheeler; Rebecca McDaniel, Purdue University; and Katha Redmon, Graniterock
  - Ossabaw Ballroom
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<td>7:00 a.m.–8:00 a.m.</td>
<td>Breakfast</td>
<td>Madison Ballroom</td>
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| 8:00 a.m.–10:00 a.m. | **BREAKOUT SESSIONS E**  
Technician Certification & AASHTO R 18 Training and Competency Evaluation Requirements  
Amy Reed and Sean Carmean, AASHTO re:source  
Cumberland Ballroom  
Avoiding the Mix-Up: Most Common Findings—Asphalt Mixtures & Aggregate Testing  
Mike Wagner, AASHTO re:source  
Pulaski Room  
Safe and Sound (and Silica-Free): A CMT Safety Roundtable  
Matt Bluman and John Malusky, AASHTO re:source  
Kelly Cook, Edw. C. Levy Co.; Mike Deran, Tennessee DOT  
Ossabaw Ballroom |                                    |
| 10:00 a.m.–10:30 a.m. | **BREAKOUT SESSIONS F**  
AASHTO R 18 Explained  
Brian Johnson, AASHTO re:source  
Cumberland Ballroom  
Up and Atom! Nuclear Gauge Calibration and Standardization Explained  
Amanda Moser and Joe Williams, AASHTO re:source  
Pulaski Room  
Corrective Action  
Benjamin Trujillo, Integrated Quality; Jasmine Gilmore, and Amy Reed, AASHTO re:source  
Ossabaw Ballroom |                                    |
| 10:30 a.m.–Noon | **BREAKOUT SESSIONS G**  
Internal Audits—The Focus on Improvement  
Tracy Barnhart and Robert Lutz, AASHTO re:source  
Cumberland Ballroom  
Resolving Common Concrete Findings  
Megan Karr, AASHTO re:source  
Pulaski Room  
Lab Manager 201  
Tom Taylor, Specialized Engineering  
Ossabaw Ballroom |                                    |
| 3:00 p.m.–5:00 p.m. | **BREAKOUT SESSIONS H**  
Quality Manager 101  
Benjamin Trujillo, Integrated Quality  
Cumberland Ballroom  
Selecting and Utilizing an External Calibration Provider  
Maria Knake, AASHTO re:source  
Pulaski Room  
RAP in Asphalt Mixtures  
Dale Decker, Dale S. Decker, LLC  
Ossabaw Ballroom  
Off-Site Evening Reception  
All attendees welcome. One-day registrants must purchase a ticket to attend. Transportation will not be provided. Groups will depart from hotel lobby at 5:45 p.m. and 6:00 p.m. for the short 15-minute walk to the venue. |                                    |
| 7:00 a.m.–8:00 a.m. | Breakfast with Exhibitors                                                               | Madison Ballroom                |
| 8:00 a.m.–10:00 a.m. | **BREAKOUT SESSIONS I**  
AASHTO R 18 Explained  
Brian Johnson, AASHTO re:source  
Ossabaw Ballroom  
Making the Most of Your QMS  
Tracy Barnhart, AASHTO re:source  
Cumberland Ballroom  
Management Review—Your “State of the Laboratory” Address  
Tracy Barnhart, AASHTO re:source  
Pulaski Room  
Train the Trainer  
Matt Bluman and Maria Knake, AASHTO re:source  
Pulaski Room  
Q&A  
2020 Technical Exchange Brainstorming Meeting  
Prize Drawings  
Moderated by AASHTO re:source staff  
Cumberland Ballroom |                                    |
| 10:00 a.m.–10:30 a.m. | Break                                                                                  | Ossabaw Ballroom                |
| 10:30 a.m.–Noon | **CLOSING**  
AASHTO re:source Customer Council Meeting  
(by invitation only)  
Harborview Room (15th Floor) |                                    |

**Wi-Fi Access**

Network: DeSoto Wifi  
Password: DESOTO19 (case sensitive)
In April 2019, AASHTO will release the first of three 2019 updates to its Standard Specifications for Transportation Materials and Methods of Sampling and Testing and AASHTO Provisional Standards, commonly known as the Materials Standards.

The April 2019 Update will include 3 new and 16 revised standards and will update the following sections:

- Hydraulic Cement and Lime
- Fresh Concrete
- Hardened Concrete
- Pavement Measurement
- Bridge and Pavement Preservation
- Quality Assurance and Environmental

PURCHASE A SUBSCRIPTION TO THE MATERIALS STANDARDS

To purchase a subscription to the web-based Materials Standards, visit the AASHTO Store online at store.transportation.org, and search by Item Code, HM-WB.

The web-based Materials Standards are available as a 12-month subscription. Customers may either purchase a single-user license, or choose among several multiple-user licenses: 2-user, 3-user, 5-user, 10-user, or 25-user licenses.

Multiple-user licenses offer deeper price discounts, ranging from a 25% discount for a two-user license, a 33% discount for a three-user license, and a nearly 40% discount for a twenty-five-user license.

QUESTIONS?

For questions about the Materials Standards, contact AASHTO Publications by email at aashtopublications@aashto.org.
**MONDAY, MARCH 11**

1:00 p.m.–4:30 p.m. — Pulaski Room

**Thermometry**

Led by Jasmine Gilmore and Sonya Puterbaugh, AASHTO re:source: 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, (4) understand the requirements of the AASHTO Accreditation Policy and Guidance on Thermometer Selection and Records document.

**TUESDAY, MARCH 12**

9:00 a.m.–10:00 a.m. — Cumberland Ballroom

**Management Review—Your “State of the Laboratory” Address**

Led by Tracy Barnhart, AASHTO re:source: Attendees will learn how management reviews differ from internal audits, (2) learn how to effectively implement management reviews for maximum benefit to their organization, and (3) see how AASHTO re:source handles its own management reviews.

9:00 a.m.–10:00 a.m. — Pulaski Room

**LIMS (Laboratory Information Management Systems)**

Led by Kelly Cook and John Yzenas, Edw. C. Levy Co.: Attendees will learn what LIMS is, understand the benefits of using LIMS, and be able to solve common challenges with using LIMS.

9:00 a.m.–10:00 a.m. — Ossabaw Ballroom

**Measurement Uncertainty 101**

Led by Robert Lutz, AASHTO re:source: The concept of measurement uncertainty seems to elicit fear and confusion in most people, even those who deal with measurement results on a frequent basis. Therefore, through the use of real-world examples, this session will provide a basic definition of measurement uncertainty and explain the factors which contribute to it.

10:30 a.m.–Noon — Ossabaw Ballroom

**Proficiency Sample Program (PSP) Reports Explained**

Led by John Malusky, AASHTO re:source: Attendees will learn how to (1) locate ratings sheets, Youden plots, performance charts, etc. on the AASHTO re:source website, (2) calculate ratings, including z-scores and within-lab repeatability, (3) understand the Youden plots, (4) understand performance charts, and (5) evaluate sample round data.

10:30 a.m.–Noon — Pulaski Room

**Common Misconceptions & Mistakes in Asphalt Binder Testing**

Led by Mike Anderson, Asphalt Institute: Standards tell us how to conduct laboratory tests and procedures, much like a recipe tells us how to prepare a certain dish. But in both standards and recipes there are things that are not stated that can have an effect on the outcome, and there are things that are stated—like materials, conditions, and steps—whose purpose is not well understood. This presentation will provide the listener with a look at some of the common mistakes and misunderstandings that can have an impact on results. Good lab practices will be included in this presentation to help minimize errors and variability.

10:30 a.m.–Noon — Cumberland Ballroom

**Accreditation 101**

Led by Brian Johnson, AASHTO re:source: Attendees will learn the most effective way to participate in the AASHTO Accreditation Program (AAP). 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.

1:00 p.m.–2:30 p.m. — Cumberland Ballroom

**Internal Audits—The Focus on Improvement**

Led by Tracy Barnhart and Robert Lutz, AASHTO re:source: The importance and benefits of conducting effective internal audits will be explored, including
the focus on continual improvement. Learn the skills needed to be an effective and successful auditor. See how AASHTO re:source handles its own internal audits, including a review of real AASHTO re:source internal audit findings and reports. AASHTO R 18 internal audit requirements will also be explained.

1:00 p.m.–2:30 p.m. —Ossabaw Ballroom

**Sieves & Sieving Sufficiency**
Led by Sonya Puterbaugh and Joe Williams, AASHTO re:source: By the end of the session, attendees will be able to (1) define the requirements for sieves in AASHTO R 18 and ASTM C1077, E11, and E329, (2) review common nonconformities noted during on-site assessments and apply meaningful corrective actions to nonconformities, (3) define the requirements of AASHTO T 27, T 30, T 88 and ASTM C136, D5444, and D6913 for determining the sieving time for a mechanical shaker, and (4) explain the requirements of ASTM C1077 for determining the period of agitation using different types of aggregate.

1:00 p.m.–2:30 p.m. —Pulaski Ballroom

**Lab Manager 101**
Led by Tom Taylor, Specialized Engineering: This introductory session is intended for those that are new to the role of Laboratory Manager in their organization. The 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.

3:00 p.m.–5:00 p.m. —Pulaski Room

**Understanding the USCS (Unified Soil Classification System)**
Led by Nicole Butkus, AASHTO re:source: This session is for those that have only been recently introduced to the USCS (Unified Soil Classification System). By the end of this session, attendees will be able to (1) distinguish between different soil classification systems and their purposes, (2) understand the meaning of USCS symbols and names, (3) use the charts, decision trees, and tables found in ASTM D2487, and (4) determine whether laboratory testing or visual-manual classification is appropriate.

3:00 p.m.–5:00 p.m. —Ossabaw Ballroom

**Women in Engineering Panel**
Led by Kelly Cook, Edw. C. Levy Co.; Georgene Geary (moderator), GGFGA Engineering, LLC; Anne Glubis, Wood/Amec Foster Wheeler; Rebecca McDaniel, Purdue University; and Katha Redmon, Graniterock. This panel discussion will focus on the benefits of having more women represented in the engineering and construction materials testing fields, and the panelists’ professional experiences throughout their careers. Tentative discussion topics include: encouraging women to pursue careers in engineering/CMT, finding and becoming mentors, and recruiting the best women for your organization.

WEDNESDAY, MARCH 13

8:00 a.m.–10:00 a.m. —Cumberland Ballroom

**Technician Certification & AASHTO R 18 Training and Competency Evaluation Requirements**
Led by Amy Reed and Sean Carmean, AASHTO re:source: By the end of the session, attendees will be able to (1) identify when a training record vs. competency evaluation record is needed, (2) understand how to perform training/competency evaluation, (3) interpret ASTM QMS standards (C1077, D3666, D3740, and E329) for personnel requirements, (4) evaluate conformance of third party certification programs using certification program descriptions, and (5) describe AASHTO re:source’s Certification Exam Review Team (CERT) review activities.
8:00 a.m.–10:00 a.m. —Pulaski Room
**Avoiding the Mix-up: Most Common Findings—Asphalt Mixtures & Aggregate Testing**
Led by Mike Wagner, AASHTO re:source: By the end of this session, attendees will be able to (1) summarize the most common issues found by AASHTO re:source assessors in asphalt mixture and aggregate testing laboratories, (2) identify the root cause of common findings given on example reports, (3) evaluate possible corrective actions that can be taken to prevent recurrence of these issues, and (4) describe the process of submitting corrective actions from assessment reports to AASHTO re:source, and the type of evidence that should be submitted for different types of findings.

8:00 a.m.–10:00 a.m. —Ossabaw Ballroom
**Safe and Sound (and Silica-Free): A CMT Safety Roundtable**
Led by Matt Bluman and John Malusky, AASHTO re:source; Kelly Cook, Edw. C. Levy Co.; and Mike Doran, Tennessee DOT: This interactive workshop will include a discussion of several key safety concerns in construction materials testing laboratories. The topics will include silica, loud environments, chemicals, and other general laboratory safety information. We will discuss OSHA requirements, the dangers of each topic, some of the actions the panel members have taken to mitigate the dangers, and field questions for each of the topics. Pictures and videos of safety at AASHTO re:source Proficiency Sample Program (PSP) and laboratory facilities will be included as examples of how to accomplish a safe environment. The workshop will be open discussion.

10:30 a.m.–Noon —Cumberland Ballroom
**AASHTO R 18 Explained**
Led by Brian Johnson, AASHTO re:source: AASHTO R 18 will be explored through discussions about requirements and best practices. Attendees will (1) learn about common misunderstandings related to R 18 requirements, and (2) suggest improvements to the wording in R 18.

10:30 a.m.–Noon —Pulaski Room
**Up and Atom! Nuclear Gauge Calibration and Standardization Explained**
Led by Amanda Moser and Joe Williams, AASHTO re:source: By the end of this session, attendees will be able to (1) recall the purpose and use for portable nuclear gauge testing, (2) understand the standardization requirements for nuclear density gauges used for soil and asphalt mixtures and evaluate calibration records for compliance, (3) understand the calibration requirements for nuclear density gauges used for soil and asphalt mixture testing and evaluate example calibration records for compliance, and (4) identify common findings written during on-site assessments for nuclear density gauge testing of soil and asphalt mixtures.

1:00 p.m.–2:30 p.m. —Cumberland Ballroom
**Internal Audits—The Focus on Improvement**
Led by Tracy Barnhart and Robert Lutz, AASHTO re:source: The importance and benefits of conducting effective internal audits will be explored, including the focus on continual improvement. Learn the skills needed to be an effective and successful auditor. See how AASHTO re:source handles its own internal audits, including a review of real AASHTO re:source internal audit findings and reports. AASHTO R 18 internal audit requirements will also be explained.

1:00 p.m.–2:30 p.m. —Ossabaw Ballroom
**Lab Manager 201**
Led by Tom Taylor, Specialized Engineering: This session will include a more in-depth focus on the roles and responsibilities of a laboratory manager and is intended for those that are experienced laboratory managers at their organization.

1:00 p.m.–2:30 p.m. —Pulaski Room
**Resolving Common Concrete Findings**
Led by Megan Karr, AASHTO re:source: By the end of this session, attendees will be able to (1) summarize the most common issues found by CCRL inspectors in concrete testing laboratories, (2) identify the root cause of common findings given on example...
reports, (3) evaluate possible corrective actions that can be taken to prevent recurrence of these issues, and (4) describe the process of submitting corrective actions from assessment reports to AASHTO re:source, and the type of evidence that should be submitted for different types of findings.

3:00 p.m.–5:00 p.m. —Pulaski Room

Selecting and Utilizing an External Calibration Provider
Led by Maria Knake, AASHTO re:source: By the end of the session, attendees will be able to (1) describe the elements that go into the development of an estimate of measurement uncertainty as stated on a calibration record, (2) analyze the risk involved with establishing calibration intervals with the goal of minimizing equipment downtime and use of resources, (3) evaluate and select a potential calibration agency given the calibration needs of the testing laboratory, and (4) interpret and critique example calibration records for accuracy and compliance with AASHTO, ASTM, and ISO standards.

3:00 p.m.–5:00 p.m. —Cumberland Ballroom

Quality Manager 101
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 ASTM standards (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.–5:00 p.m. —Ossabaw Ballroom

RAP in Asphalt Mixtures
Led by Dale Decker, Dale S. Decker, LLC: This course covers the fundamentals of using reclaimed asphalt pavement (RAP) in asphalt mixtures, including RAP evaluation, mix design, plant issues, and construction. RAP engineering is a critical part of the asphalt industry’s ability to use this important material. The focus is on practical application of RAP and the benefits of using the product. Attendees will (1) learn about RAP materials, (2) understand the requirements for processing RAP at the plant, and (3) learn how to control mixture properties in RAP mixtures.

THURSDAY, MARCH 14

8:00 a.m.–9:00 a.m. —Cumberland Ballroom

Making the Most of Your QMS
Led by Tracy Barnhart, AASHTO re:source: The importance and benefits of creating and maintaining a quality management system (QMS) will be explored. Attendees will learn (1) the three basic components of a QMS, (2) pitfalls to avoid with quality management systems, (3) ways to measure quality, and (4) tips and tricks for keeping a QMS running smoothly.

9:00 a.m.–10:00 a.m. —Cumberland Ballroom

Management Review—Your “State of the Laboratory” Address
Led by Tracy Barnhart, AASHTO re:source: Attendees will (1) learn how management reviews differ from internal audits, (2) learn how to effectively implement management reviews for maximum benefit to their organization, and (3) see how AASHTO re:source handles its own management reviews.

8:00 a.m.–10:00 a.m. —Pulaski Room

Train the Trainer
Led by Matt Bluman and Maria Knake, AASHTO re:source: By the end of this session, attendees will be able to (1) establish a relationship with the trainee in order to develop trust and create a safe environment for learning, (2) explain the unique ways that adults learn new material and how it differs from young learners, (3) identify effective communication techniques for coaches and trainers, (4) develop a plan of action for delivering negative feedback effectively, and (5) measure the effectiveness of the training delivered and the progress of the trainee.

8:00 a.m.–10:00 a.m. —Ossabaw Ballroom

AASHTO R 18 Explained
Led by Brian Johnson, AASHTO re:source: AASHTO R 18 will be explored through discussions about requirements and best practices. Attendees will (1) learn about common misunderstandings related to R 18 requirements, and (2) suggest improvements to the wording in R 18.
Speaker Biographies

R. Michael Anderson, P.E.
Director of Research and Laboratory Services. Asphalt Institute, Lexington, KY

Mike has worked for the Asphalt Institute (AI) in Lexington, Kentucky since 1991, currently serving as the Director of Research and Laboratory Services. He started his career in the asphalt industry in 1987 with the Kentucky Department of Highways, Division of Materials as an asphalt mix design engineer. Mike continued his career as a laboratory manager and quality control engineer for H.G. Mays Corporation before joining AI. He has been actively involved with national research projects including the Strategic Highway Research Program (SHRP) and National Cooperative Highway Research Program (NCHRP). Mike has served as the Executive Director of the Association of Asphalt Paving Technologists (AAPT) since 2013. He is a registered professional engineer in Kentucky.

- Common Misconceptions & Mistakes in Asphalt Binder Testing

Tracy Barnhart, CQA, CCT
Quality Manager
AASHTO re:source, Frederick, MD

Tracy has been with AASHTO re:source for nearly 29 years, serving as Quality Manager since 2006. She has also been a Laboratory Assessor, Quality Analyst, and LAP Assistant Program Supervisor. Tracy has conducted over 40 internal audits and has participated in over 50 management reviews at re:source. She 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. Tracy also manages the ISO/IEC 17025 assessment and accreditation programs at re:source. She is a graduate of the University of Pittsburgh and holds a B.S. degree in Geology.

- Opening Plenary Session
- Internal Audits—The Focus on Improvement
- Making the Most of Your QMS
- Management Review—Your “State of the Laboratory” Address

Matt Bluman
Manager, Training & Safety
AASHTO re:source, Frederick, MD

Matt has been with AASHTO re:source for 10 years. He has been the Manager of Training and Safety for five years, and before that was a Laboratory Assessor and LAP Assistant Program Supervisor. Matt is responsible for training all new laboratory assessment staff and establishing safe working conditions and procedures for all staff. The safety program focuses mainly on the AASHTO re:source PSP production. Matt graduated with a degree in Physics from Slippery Rock University in PA.

- Safe and Sound (and Silica-Free): A CMT Safety Roundtable
- Train the Trainer

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.

- Understanding the USCS (Unified Soil Classification System)

Sean Carmean
Laboratory Assessor
AASHTO re:source, Frederick, MD

Sean has been a Laboratory Assessor at AASHTO re:source since he began his career in 2017. He has been involved in many projects and committees at AASHTO re:source, including the Metals, Calibration, Wiki, and Thermometer committees. Sean graduated from North Carolina State University with a B.S. in Materials Science and Engineering.

- Technician Certification & AASHTO R 18 Training and Competency Evaluation Requirements
Kelly Cook
Manager, Levy Technical Laboratories, Edw. C. Levy Co., Valparaiso, IN
Kelly Cook is a graduate of Purdue University and nine-year veteran in the laboratory testing field with experience in wet chemistry, metals-based testing, and aggregate and construction materials testing, including HMA mix design. She is an active member of the Transportation Research Board (TRB), Indiana Mineral Aggregates Association (IMAA), National Slag Association (NSA), ASTM International, and Association of Official Agricultural Chemists (AOAC). As Manager of Edward C. Levy’s Technical Laboratories, Kelly oversees day-to-day operations of the quality and research laboratory, which has been AASHTO accredited since 2001, and participates in various associations and committees to develop and maintain standards, test methods and best practices for the construction and aggregate industries.

- LIMS (Laboratory Information Management Systems)
- Safe and Sound (and Silica-Free): A CMT Safety Roundtable
- Women in Engineering Panel

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 18 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.

- RAP in Asphalt Mixtures

Michael Doran, P.E.
Assistant Director, Materials and Tests Division, Tennessee Department of Transportation, Nashville, TN
Mike received a B.S. degree in Civil and Environmental Engineering from Tennessee Technological University in 1998. He has worked for the Tennessee Department of Transportation for the past 20 years. He is a registered professional engineer in the state of Tennessee. Currently, he is the Assistant Director of the Materials and Tests Division for Laboratory Operations.

- Safe and Sound (and Silica-Free): A CMT Safety Roundtable

Georgene Geary, P.E., Ph.D.
Principal Engineer, Owner GGfGA Engineering, LLC, Stockbridge, GA
Georgene is the principal engineer and owner of the consulting firm GGfGA Engineering, LLC in Stockbridge, Georgia. She retired from the Georgia Department of Transportation (GDOT) at the end of 2014, where she spent over half of her career as the State Materials and Research Engineer. Georgene was involved in materials, pavements, and all aspects of transportation research during her career at GDOT. She is also the current Chair for the Transportation Research Board’s (TRB) Design and Rehabilitation of Concrete Pavements Committee (APD50). Georgene holds a B.S. in Civil Engineering from the University of Illinois, a M.S. in Civil Engineering from Georgia Tech, and is currently pursuing a Ph.D. in Civil Engineering from Georgia Institute of Technology as a National Science Foundation (NSF) fellowship student.

- Keynote Speaker
- Women in Engineering Panel

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

- Corrective Action
- Thermometry

Anne Glubis
Associate Quality Assurance Manager. Wood/Amec Foster Wheeler, Jacksonville, FL
Anne is an experienced associate with a demonstrated history of working in the materials testing industry. She is skilled in quality assurance, quality control, materials testing, geotechnical engineering, and project management. Anne has been with Wood/Amec Foster Wheeler for over 12 years. She has a BSCE in Geotechnical and Geoenvironmental Engineering from the University of North Florida and is an ASQ Certified Quality Auditor (CQA) and Certified Manager of Quality/Organizational Excellence (CMQ/OE).

- Women in Engineering Panel
Brian Johnson
Manager, AASHTO Accreditation Program (AAP). AASHTO re:source, Frederick, MD

Brian is the AASHTO Accreditation Program Manager at AASHTO re:source, where he manages a team of 10 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 chairmanship in ASTM D04 and is heavily involved in both AASHTO and ASTM standards development activities.

- Accreditation 101
- AASHTO R 18 Explained

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

Megan has been with AASHTO re:source since 2014 as a Quality Analyst for the AASHTO Accreditation Program. Prior to this, she worked for the Cement and Concrete Reference Laboratory (CCRL) as a Laboratory Inspector. Megan is a graduate of the Pennsylvania State University with a B.S. degree in Chemical Engineering.

- Resolving Common Concrete Findings

Maria Knake
Manager, Laboratory Assessment Program (LAP)
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 is heavily involved with standards development, working closely with AASHTO’s Committee on Materials and Pavements (COMP). Maria 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. She is a Designated Master Instructional Designer and Designated Master Trainer through the Association for Talent Development (ATD) and has a passion for teaching others. Maria has a B.S. degree in Civil Engineering from Michigan Technological University, with a Concentration in Pavement Design, Construction, and Materials.

- Selecting and Utilizing an External Calibration Provider
- Train the Trainer

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 has worked for AASHTO since 1989 in a variety of roles—Laboratory Assessor, LAP 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. He is an engineering graduate of Lafayette College in Easton, Pennsylvania.

- Internal Audits—The Focus on Improvement
- Measurement Uncertainty 101

John Malusky
Manager, Proficiency Sample Program (PSP). 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 11 years. Prior to his current role, John was a Laboratory Assessor and Quality Analyst for AASHTO re:source. He 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 Program (PSP) Reports Explained
- Safe and Sound (and Silica-Free): A CMT Safety Roundtable
Rebecca McDaniel, P.E., Ph.D.
Technical Director, North Central Superpave Center (NCSC)
Purdue University, West Lafayette, IN

Dr. McDaniel conducts asphalt-related research, training and technology transfer through the NCSC. Prior to joining the NCSC, she worked for the Indiana Department of Transportation Research Division. She has a B.A. degree in English from Indiana University and B.S., M.S. and Ph.D. degrees in Civil Engineering from Purdue. She is an active member and past chair of the Association of Asphalt Paving Technologists, chair of the Transportation Research Board’s Asphalt Section, chair of ASTM Committee D04 on Road and Paving Materials, and a member of the Board of Directors of ASTM International.

Amanda Moser
Senior Laboratory Assessor
AASHTO re:source, Frederick, MD

Amanda has been with AASHTO re:source for over 12 years, serving as a Laboratory Assessor, LAP Assistant Program Supervisor, and Senior Laboratory Assessor. She oversees a team of Laboratory Assessors (Mosier’s Minions) and performs both ISO/IEC 17025 and technical on-site assessments for AASHTO re:source. Amanda is a University of Maryland graduate with a B.S. in Aerospace Engineering.

Sonya Puterbaugh
Assistant Manager, Laboratory Assessment Program (LAP)
AASHTO re:source, Frederick, MD

Sonya joined AASHTO re:source as a Laboratory Assessor in January 2014, and became an Assistant Manager of the Laboratory Assessment Program in 2018. She is University of Pittsburgh graduate, with a B.S. in Biomechanical Engineering, and is currently pursuing a master’s degree in Mechanical Engineering from Penn State University.

Amy Reed
Senior Quality Analyst
AASHTO re:source, Frederick, MD

Amy has been with AASHTO re:source since 2012, first as a Laboratory Assessor and then as a Quality Analyst for the past four-and-a-half years. She has led the Certification Exam Review Team (CERT) at AASHTO re:source since 2015. Amy is a graduate of Frostburg State University in Frostburg, Maryland, where her studies focused on Earth Science.

Katha Redmon
Director, Concrete Products
Graniterock, Watsonville, CA

Katha is a graduate of the University of California, Irvine and has decades of technical experience in the Portland cement concrete industry. During her career, Katha has managed the technical services teams of several major material producers in the California market, ensuring product compliance of concrete, and aggregate products. She currently holds a NRMCA Certified Concrete Technologist Level IV certification along with multiple ACI Field and Laboratory testing certifications. Katha is also a member of the California Construction and Industrial Materials Association (CalCIMA) Technical Committee and currently serves as a member of several Caltrans technical task groups.

Tom Taylor, P.E.
Principal, Director of Laboratory Services, Specialized Engineering, Frederick, MD

Tom is the Laboratory Director for two materials testing laboratories that have been AASHTO and WACEL accredited and Army Corps of Engineers validated for the past 12 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.

Benjamin Trujillo, CQA, COIA
Owner, Integrated Quality, Albuquerque, NM

Ben has more than 20 years’ experience designing and managing business and quality systems for organizations engaged in commercial and nuclear design and construction projects. In this capacity, he has worked...
with calibration agencies, design firms, testing laboratories, special inspection agencies, and construction management firms. He has designed quality programs and implementation plans to address the requirements of many design and construction related quality standards; notably AASHTO R18, ASME NQA-1, DOE O 414.1D, ISO 17020, ISO 17025, ISO 9001, and IAS AC291. He currently operates as a business and quality systems consultant and trainer and serves as the Immediate Past Chair for the ASQ Design & Construction Division.

- Corrective Action
- Quality Manager 101

**Mike Wagner**  
*Assistant Manager, Laboratory Assessment Program (LAP)*  
*AASHTO re:source, Frederick, MD*

Before starting his career at AASHTO re:source in 2010, Mike spent several years working for the National Park Service and the Student Conservation Association at various national parks. He has served in a variety of roles at AASHTO re:source, including Laboratory Assessor, Senior Laboratory Assessor, and now as an Assistant Manager of the Laboratory Assessment Program. Mike currently manages a team of nine Laboratory Assessors as well as five contracted assessors. He is a graduate of Slippery Rock University in western Pennsylvania.

- Avoiding the Mix-up: Most Common Findings—Asphalt Mixtures & Aggregate Testing

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**Joe Williams**  
*Quality Analyst*  
*AASHTO re:source, Frederick, MD*

Joe worked for five years as a field biologist for the Maryland Department of Natural Resources’ Blue Crab Program before coming to AASHTO re:source in 2014. He started his career at AASHTO re:source as a Laboratory Assessor and is now a Quality Analyst. Joe graduated from Coastal Carolina University in Conway, South Carolina with a bachelor’s degree in Marine Science.

- Sieves & Sieving Sufficiency
- Up and Atom! Nuclear Gauge Calibration and Standardization Explained

**John Yzenas, Jr.**  
*Director, Technical Services*  
*Edw. C. Levy Co., Valparaiso, IN*

John is the Director of Technical Services for the Edw. C. Levy Company. He has been engaged in the construction and construction materials industry for over 40 years, working in operations, quality, engineering services and new product development. He serves and participates in many local and national committees dealing with aggregate issues for organizations including ASTM International, Transportation Research Board (TRB), and Indiana Mineral Aggregates Association.

- LIMS (Laboratory Information Management Systems)

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**NON-PRESENTING STAFF**

**Kim Swanson**  
*Communications Manager*  
*AASHTO re:source, Frederick, MD*

As the Communications Manager, Kim is responsible for creating and implementing a comprehensive communications program that enhances AASHTO re:source’s image and position within the construction materials industry and the general public. She manages the production of promotional videos, presentation materials, internal and external training media, including the AASHTO re:source In Focus newsletters, and re:source’s Twitter and LinkedIn accounts. Kim is also a certified life coach and holds a BAA degree from Central Michigan University.

**Greg Uherek**  
*Manager, Business Development & Technical Services*  
*AASHTO re:source, Frederick, MD*

Greg started at AASHTO re:source in 1989 and is currently the Manager of Business Development & Technical Services. He works closely with the agencies that specify AASHTO accreditation and services. Prior to this role, Greg served as the Program Supervisor for the Laboratory Assessment Program (LAP) and also as a Laboratory Assessor. He is an active member of various ASTM International subcommittees and is the current Vice Chairman for Subcommittee D18 on Soil and Rock. Greg holds a Bachelor of Science degree from the University of Pittsburgh.
R18LabQMS® is a web-based application for laboratories managing their Quality Management System that follows the guidelines of AASHTO R18, all in one place.

Most laboratories keep their documentation of equipment cal/check/standard/maintenance procedures, and requirements in spreadsheets, word processors, file cabinets and binders in various locations around the lab.

R18LabQMS has been developed to streamline this process, save time and keep all laboratory personnel engaged in the process; it’s like hiring a part time employee to keep everything organized!

Contact Gary Irvine for more information and a demo today!
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859-221-2605 cell
service@r18labqms.com
r18labqms.com
To be eligible to receive PDHs, please ensure your badge is scanned at the beginning of each session you attend. Attendees will only receive PDHs for one session per time slot. This form is for your records only. AASHTO re:source will email PDH certificates to you within 4 weeks.

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<td>1:00 p.m. – 4:30 p.m.</td>
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<td>9:00 a.m. – 10:00 a.m.</td>
<td>Management Review – Your “State of the Laboratory” Address</td>
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<td>Measurement Uncertainty 101</td>
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<td>10:30 a.m. – noon</td>
<td>Accreditation 101</td>
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<td>Proficiency Sample Program (PSP) Reports Explained</td>
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<td>Internal Audits – The Focus on Improvement</td>
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<td>Understanding the USCS (Unified Soil Classification System)</td>
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<td><strong>Wednesday, March 13, 2019</strong></td>
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<td>8:00 a.m. – 10:00 a.m.</td>
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<td>10:30 a.m. – noon</td>
<td>Corrective Action</td>
<td>1.5</td>
</tr>
<tr>
<td>1:00 p.m. – 2:30 p.m.</td>
<td>Internal Audits – The Focus on Improvement</td>
<td>1.5</td>
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<tr>
<td>1:00 p.m. – 2:30 p.m.</td>
<td>Resolving Common Concrete Findings</td>
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<tr>
<td>1:00 p.m. – 2:30 p.m.</td>
<td>Lab Manager 201</td>
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<tr>
<td>3:00 p.m. – 5:00 p.m.</td>
<td>Quality Manager 101</td>
<td>2</td>
</tr>
<tr>
<td>3:00 p.m. – 5:00 p.m.</td>
<td>Selecting and Utilizing an External Calibration Provider</td>
<td>2</td>
</tr>
<tr>
<td>3:00 p.m. – 5:00 p.m.</td>
<td>RAP in Asphalt Mixtures</td>
<td>2</td>
</tr>
<tr>
<td><strong>Thursday, March 14, 2019</strong></td>
<td></td>
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</tr>
<tr>
<td>8:00 a.m. – 9:00 a.m.</td>
<td>Making the Most of Your QMS</td>
<td>1</td>
</tr>
<tr>
<td>9:00 a.m. – 10:00 a.m.</td>
<td>Management Review – Your “State of the Laboratory Address”</td>
<td>1</td>
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<tr>
<td>8:00 a.m. – 10:00 a.m.</td>
<td>Train the Trainer</td>
<td>2</td>
</tr>
<tr>
<td>8:00 a.m. – 10:00 a.m.</td>
<td>AASHTO R 18 Explained</td>
<td>2</td>
</tr>
</tbody>
</table>

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