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NORTH DAKOTA ASPHALT CONFERENCE

APRIL 3-4 2019 • RAMADA BISMARCK HOTEL

NDSU

UPPER GREAT PLAINS
TRANSPORTATION INSTITUTE
NORTH DAKOTA LOCAL TECHNICAL ASSISTANCE PROGRAM

A SPECIAL WELCOME TO FIRST-TIME ATTENDEES

We are pleased you've decided to attend your first ND Asphalt conference. The agenda is full of educational opportunities and you will have plenty of time to network with experts in the asphalt industry.

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QUESTIONS, COMMENTS AND FEEDBACK

If you have any questions, please see the registration table and we will do our best to get them answered. Please remember to fill out the conference evaluation form. This is your conference and we want to be sure it is meeting your expectations.



All presentations will be available on the NDLTAP website after the conference, www.ndltap.org.

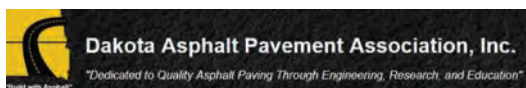


ND Asphalt Conference Dates

APRIL 7-8, 2020 • Ramada Bismarck Hotel
APRIL 6-7, 2021 • Ramada Bismarck Hotel



This conference is coordinated and sponsored by the North Dakota Local Technical Assistance Program (a program under Upper Great Plains Transportation Institute, North Dakota State University), North Dakota Department of Transportation, Dakota Asphalt Pavement Association, and Associated General Contractors of North Dakota.



UPPER GREAT PLAINS
TRANSPORTATION INSTITUTE
NORTH DAKOTA LOCAL TECHNICAL ASSISTANCE PROGRAM

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CONFERENCE AGENDA

WEDNESDAY, APRIL 3, 2019

1:00 PM – 5:00 PM CT

MODERATOR – JEREMY HOLT, ANDERSON WESTERN

- 1:00 – 1:10 **OPENING REMARKS** – Dale Heglund, NDLTAP Director
- 1:10 – 1:30 **NDDOT WELCOME** – Tom Sorel, NDDOT Director Tom Sorel
- 1:30 – 2:30 **PAVEMENT DESIGNS – LOCAL STREET/ROAD, 2" THIN LIFT OVERLAY AND MODULES, PAVE INSTRUCTION**
Amy Miller, PaveExpress
Michael Rivinius, Wold Engineering
Curt Dunn, NDDOT
- 2:30 – 2:45 **CHIP SEALS WITH WARRANTIES** – Chad Beggs, NDDOT
- 2:45 – 3:00 NETWORKING BREAK**
- 3:00 – 3:30 **UND RESEARCH**
Daba Gedafa, PhD, PE – Performance-Based Design
Nabil Suleiman, PhD – Balanced Mix Design Gyration
- 3:30 – 4:30 **PAVEMENT DENSITIES AND TACK COATS**
Mark Blow, Asphalt Institute
- 4:30 – 5:00 **BINDER SELECTION PROCESS**
Andy Cascione, PhD, Flint Hills
- 5:00 **SOCIAL AND 2018 RIDE AWARDS – KEN SWEDEEN, WAYDE SWENSON**
Sponsored by DAPA, Ken Swedeen
- PARKING LOT DEMOS**
IC roller with data reviews
(Bryce Wouri, Northern Improvement Co. and Curt Dunn, NDDOT)
Distributor–new technology (Swanston)
Hamm roller with IC and a truck with a scanner system (RDO)
Soy-based rejuvenator application equipment (Boulder Products & Services)
- UND STUDENT RESEARCH POSTERS:**
Robeam Melaku, PhD candidate
Jun Liu, MS student
Anjo Mate, MS student

CONFERENCE AGENDA

THURSDAY, APRIL 4, 2019

7:00 AM – 12:00 NOON CT

7:00 – 8:00 Full Breakfast Provided

MODERATOR – AMY BIESE, NDDOT

8:00 – 8:30 **NDDOT UPDATE** – Matt Linneman, NDDOT

8:30 – 9:15 **PERPETUAL PAVEMENTS**
Rebecca McDaniel, North Central Superpave Center
at Purdue University

9:15 – 9:45 **URBAN PAVEMENT DESIGN – HISTORY AND CURRENT PRACTICE**
Michael Mart, City of Bismarck

9:45 – 10:15 NETWORKING BREAK

10:15 – 10:50 **BASE STABILIZATION**
Terry Maier, Team Laboratory Chemical Corp.

10:50 – 11:30 **COLD-IN-PLACE RECYCLING, WILLIAMS COUNTY**
Trevor Christianson, Mayo Construction
Adam Mahaney, Western Asphalt Products
Dennis Nelson, Williams County

11:30 – Noon **EVOLUTION OF OIL – WHERE DID THE CUTBACKS GO?**
Don Moors, Ingevity

SAFE TRAVELS HOME

2018 ND RIDE QUALITY AWARDS

CONTRACTOR	PROJECT	AWARD	CONSTRUCTION METHOD
Knife River	SS-2-046(047)060	1 st Place	3 Opportunities
Mayo Construction	NH-6-081(095)206	2 nd Place	3 Opportunities
Anderson Western, Inc.	NH-1-200(073)236	3 rd Place	3 Opportunities
Anderson Western, Inc.	NH-1-003(049)093	1 st Place	2 Opportunities
Knife River	SS-2-032(029)049	2 nd Place	2 Opportunities
Border States	NH-1-006(017)042	3 rd Place	2 Opportunities

2019 CONFERENCE STEERING COMMITTEE

Amy Beise	NDDOT
Denise Brown	NDLTAP
Carey Burke	AGC
Curt Dunn	NDDOT
David Ferrell	FHWA
Bryon Fuchs	Local Government
Daba Gedafa	UND, Civil Engineering
Dale Heglund	NDLTAP
Mark Hendrickson	Northern Improvement Company
Jeremy Holt	Anderson Western
Tim Horner	Upper Great Plains Transportation Institute (UGPTI)
Matt Linneman	NDDOT, M&R
Ryan Lynch	Flint Hills Resources
Michael Mart	City of Bismarck
Dennis Nelson	Williams County
Chris Padilla	NDLTAP
Justin Ramsey	NDDOT, Transportation Services
Mike Rivinius	Wold Engineering
Clayton Schumaker	NDDOT, M&R
Mike Kisse	NDDOT
Ken Swedeen	Dakota Asphalt Paving Association
Nabil Suleiman	UND, Civil Engineering
Stephanie Weigel	NDDOT, Planning
Andrew Wrucke	Upper Great Plains Transportation Institute (interim NDSU Civil rep)

SPEAKER BIOS

Chad Beggs

Chad Beggs is an engineering team leader with the Minot District of NDDOT. He oversees federal and state aid construction projects within the Minot District and administers the district design duties. Chad graduated from North Dakota State University with a degree in civil engineering and is a registered professional engineer in North Dakota.

Amy Beise

Amy Beise is team lead for research and pavement design at the NDDOT. She oversees the operations of the research program, issuance of concrete & bituminous thickness recommendations, falling weight deflectometer data collection, and pavement profiling. Amy's goals for research within the NDDOT are to identify the state's greatest transportation research needs and promote implementable, cost-saving solutions. Amy has bachelor's and master's degrees in civil engineering from North Dakota State University.

Mark Blow

Mark Blow is a registered professional engineer and a member of the Association of Asphalt Paving Technologists. Mark has been a district engineer for the Asphalt Institute since 1996. He has developed and conducted many training sessions at the national, state and local level. Prior to the Asphalt Institute, he was the bituminous engineer for the SDDOT where he developed and implemented quality control/quality assurance specifications, guidelines and training programs. Mark has been actively involved in the hot mix asphalt industry since 1979.

Andy Cascione

Andy Cascione is an asphalt technical representative at Flint Hills Resources in Rosemount, MN. He provides technical support for terminals that produce asphalt binders and emulsions; selects raw materials; optimizes product formulations; leads research initiatives; supports processing procedures; and troubleshoots specification issues. He studied asphalt materials at Michigan Tech University and worked in the industry as a hot mix quality engineer. In 2014 Andy earned his Ph.D. in civil engineering from Iowa State University where he conducted research in polymer modified asphalt.

Trevor Christianson

Trevor Christianson graduated from North Dakota State University with a bachelor's degree in construction engineering. In the early 90's he worked for the Kansas Department of Transportation. He moved to Bottineau and worked as an engineer for Wold Engineering for 14 years, serving numerous counties and cities in northern North Dakota. He is currently the vice president of Mayo Construction in Cavalier, ND, and serves on the board of directors of the Associated General Contractors of North Dakota.

Curt Dunn

Curt Dunn is the highway material coordinator with NDDOT in the Grand Forks District. He earned a bachelor's degree in civil engineering from the University of North Dakota and began his career with NDDOT in 1995. Curt is a registered professional engineer and has taught soil certification classes for the department. Curt serves on the ND Asphalt Steering Committee, the Transportation Research Innovation Program, and the Research Advisory Committee. He also serves on several study groups researching topics such as intelligent compaction and percent within limits specifications.

Daba Gedafa

Daba Gedafa is interim chair and associate professor of civil engineering at the University of North Dakota. He received his Ph.D. in civil engineering from Kansas State University in 2008. He specializes in pavement and materials engineering. He is a registered professional engineer in North Dakota and Connecticut and is also registered as an Envision Sustainability Professional. He is president of American Society of Civil Engineers (ASCE) North Dakota section.

Dale C. Heglund

Dale is director of the North Dakota Local Technical Assistance Program, a part of the Upper Great Plains Transportation Institute at North Dakota State University. Heglund says he is grateful for the opportunity to share experiences from the past 40 or more years to help North Dakota's transportation leaders transcend their normal high-water mark of learning.

Jun Liu

Jun Liu is a master's student in civil engineering at the University of North Dakota. He received his bachelor's degree in civil engineering from Iowa State University in 2016. He is a registered engineer in training in North Dakota. His research focus is in pavement and material engineering. Currently, he is working on research related to performance-based specifications for asphalt pavements.

Matt Linneman

Matt is the materials & research engineer for the North Dakota Department of Transportation. He improves and maintains the quality highways and bridges in a cost-effective manner through the innovative use of materials. Matt previously worked in the NDDOT Environmental & Transportations Services Division and in the design section of the DOT Support Center at North Dakota State University. Matt earned a bachelor's degree in civil engineering and a master's of business administration from NDSU.

Adam Mahaney

Adam has spent 14 years in the asphalt industry, originally working in Ontario for Seeley and Arnill Construction for 7 years on a cold-in-place recycling crew. During his time at Seeley and Arnill, he recycled approximately one million tons of recycled asphalt pavement using both cold-in-place recycling and central plant recycling with emulsified asphalt and foamed asphalt technologies. In 2012 Adam transferred to an affiliated company, Western Asphalt Products, as the company was developing its two asphalt emulsion terminals. He has been general manager of the Brandon emulsion terminal since 2012 and remains involved in some cold-mix and cold-in-place projects throughout Western Canada and North Dakota.

Terry Maier

Terry Maier is the president of Team Laboratory Chemical Corp. Inc. (TeamLab), having started with the company in 1984. He served as sales manager until 2003 when he and his wife purchased the company, which is the manufacturer of its patented base stabilizer Base One, which increases the strength of paved roads and the durability of gravel and dirt roads. Located in Detroit Lakes, MN, TeamLab develops a variety of specialized products for multiple industries.

Michael Mart

Michael is a project engineer with the City of Bismarck and is a registered professional engineer in North Dakota. After earning a bachelors' degree in construction engineering from NDSU in 2011, Michael began working for the City of Bismarck as an engineering technician and became a project engineer in November of 2012. He oversees the pavement management program for the city and has designed and overseen several roadway construction projects.

Anjo Mate

Anjo Mate is a graduate student at the University of North Dakota seeking a master's degree in civil engineering. He joined UND in spring 2018. He earned his bachelor's in civil engineering from Mapua Institute of Technology, Manila, Philippines. He passed the Engineer-in-Training (EIT) Exam in 2017. Mate worked as a civil engineer at the department of transportation (Philippines) as a quantity surveyor for a year. He estimated materials for asphalt pavements for provincial airports and harbors. His research interest is in the area of pavement engineering and materials.

Rebecca McDaniel

Rebecca McDaniel has been technical director of the North Central Superpave Center at Purdue University since 1995. Before that she served as research engineer and manager with the Indiana Department of Transportation where she specialized in pavements and materials. McDaniel holds bachelor's, master's, and doctoral degrees in civil engineering from Purdue University, and a bachelor's degree in English from Indiana University.

Robeam Melaku

Robeam Melaku is a doctoral student in civil engineering at the University of North Dakota. He received his master's in transportation and road engineering in 2014, and bachelor's in civil engineering in 2011 from Addis Ababa University, Ethiopia. His research focus is in pavement and material engineering. He is currently working on research related to sustainable pavement materials.

SPEAKER BIOS continued

Amy Miller

Amy Miller is national director for the Asphalt Pavement Alliance which represents the interests of the Asphalt Institute, the National Asphalt Pavement Association and a consortium of the state asphalt pavement associations. Amy is a graduate of the University of Florida with a bachelor's degree in environmental engineering and a master of business administration. She is a licensed professional engineer in Florida. After college, she worked as a civil engineer doing site work and land development. She went on to work for a pipe company as a sales engineer and eventually worked into a key account manager position for another manufacturing organization. Recently, she marked her 10th year in the trade association industry and began her third year in the Asphalt Pavement Alliance.

Don Moors

Don Moors is senior technical sales representative and account manager with Ingevity Corporation. He is involved in technical sales of asphalt additives, including key account management and growth, new business development, and new product introduction. Don graduated in 2002 from Clemson University with a bachelor's in mechanical engineering and went to work with MeadWestvaco Corporation which later became Ingevity.

Dennis Nelson

Dennis Nelson began working for the City of Williston as a surveyor and project inspector. In 2005, he went to work for Williams County as the county highway superintendent. He oversees all aspects of the Williams County Highway Department including budgeting, equipment, gravel and paved road projects, personnel, supplies and many other duties. Dennis also works with all of the townships in the counties as needed.

Michael Rivinius

Michael Rivinius is vice president of the board of directors for Wold Engineering, P.C. and operations manager for the Bismarck office. He graduated from North Dakota State University with a bachelor of science in civil engineering. His areas of expertise include structural design, roadway design, hydrology, hydraulics, project development and construction engineering. Michael is a past president of the board of directors for the North Dakota Association of County Engineers, and is a member of the American Society of Civil Engineers and the American Society of Highway Engineers.

Thomas Sorel

Thomas Sorel was appointed director of the NDDOT in July 2017. As director, he leads the Department of Transportation and is a member of the ND Governor's Cabinet. He provides leadership for the development of the state's transportation system including roadways, transit, pedestrian and bicycle paths emphasizing the economic vitality of the state and ensuring high service levels to citizens. The department ensures that people and goods move safely across the state by planning, building, and maintaining 8,518 miles of roadway and 4,858 bridges with a biennial budget of \$2.6 billion. The department also provides quality service for motor vehicle functions including titling, registering, and administering the excise tax and Real ID. He previously served as Minnesota Department of Transportation commissioner from 2008-2012. Prior to that, he had a 30-year career with the U.S. Department of Transportation's Federal Highway Administration, serving as administrator of its St. Paul Division from 2005 to 2008.

Nabil Suleiman

Nabil Suleiman is an associate professor of civil engineering at the University of North Dakota. He received his Ph.D. degree in engineering from North Dakota State University in 2001. He teaches geotechnical and pavement engineering courses at UND including a sustainable pavements course. Nabil's area of expertise is pavement engineering and materials. He has conducted several research projects for the NDDOT over the past 17 years and was the first to utilize the asphalt pavement analyzer for NDDOT research projects.

Ken Swedeen

Ken became the executive director of the Dakota Asphalt Pavement Association in 2001. Prior to earning his bachelor's degree in civil engineer from South Dakota State University he worked on various highway construction projects in Montana and Wyoming. He began his engineering career with Texaco, Inc., as a project engineer in Houston, TX. He then worked for the Wyoming Department of Transportation for 20 years as a materials engineer, a resident engineer in Jackson, WY, and a district maintenance engineer in Casper, WY. He then became the city engineer for the city of Sioux Falls, SD, for two years. Ken also holds a master's degree in business administration from the University of Wyoming.

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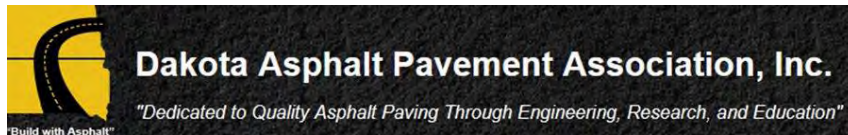



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Sandy Baisch, NDLTAP
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Kerry Beckman, NDDOT
Chad Beggs, NDDOT
Amy Beise, NDDOT
Logan Beise, NDDOT
Paul Benning, NDDOT
Jason Benson, Cass County
Jesse Berger, Wold Engineering
Adam Berglund, NDDOT
Christopher Bertsch, Burleigh County
Ted Billadeau, Mayo Construction
Mark Blow, Asphalt Institute
Korey Boe, NDDOT
Cory Bohne, NDDOT
Casey Bovkoon, RDO Equipment
Janel Brandt, NDDOT
Jesse Brandvold, Wold Engineering, PC
Kurt Brew, Boulder Products and Services
Denise Brown, NDLTAP
Rodger Burckhard, Strata Corporation
Duane Carlstrom, NDDOT
Jay Carney, Industrial Builders
Andy Cascione, Flint Hills Resources
Trevor Christianson, Mayo Construction
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Curt Dunn, NDDOT
Dylan Dunn, Moore Engineering
Travis Eckroth, Burleigh County
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Kasey Erickson, Butler Machinery
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Gerard Feist, NDLTAP
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Taylor Foley, NDDOT
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Charles Hankins, Interstate Engineering
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Chad Hanson, Husky Asphalt
Corey Hanson, NDDOT
Stacey Hanson, NDDOT
Josh Hart, Knife River Corporation
Gill Hedman, South Dakota LTAP
Dale Heglund, NDLTAP
Levi Heller, Apex Engineering Group
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Joshua Jochim, NDDOT
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Scott Johnson, Interstate Engineering
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Jason Kovaloff, NDDOT
Nate Krikorian, Morton County
Kurt Kuechle, Braun Intertec
Mark Kvas, Bartlett & West
Andrew Larson, City of Mandan
Eric Larson, Wold Engineering, PC
Nate Law, Boulder Products and Services
Loren Lee, NDDOT
John Levin, Strata Corporation
Matt Linneman, NDDOT
Sharon Lipsh, Walsh
Kyle Litchy, Cass County
Jun Liu, UND
Eric Lothspeich, AE2S
Jim Lynch, INGEVITY/EVOTHERM
Ryan Lynch, Flint Hills Resources

CONFERENCE ATTENDEES continued

Dale Madsen, Border States Paving, Inc.
Tyler Madsen, NDDOT
Adam Mahaney, Western Asphalt Products
Terry Maier, Team Laboratory Chemical Corp
Lowell Malard, Butler Machinery
Gabe Malische, Ulteig
Seng Marohl, NDDOT
Michael Mart, City of Bismarck
Jon Martin, Wold Engineering
Matt Mastel, NDDOT
Anjo Mate, UND
Mike May, Interstate Engineering
Jason Mayfield, Wold Engineering
Thomas McCabe, McKenzie County
Travis McCloud, NDDOT
Rebecca McDaniel, North Central SuperPave Center
Purdue University
Jeff McElwain, Ackerman-Estvold
Scott McGirr, Husky Asphalt
Robeam Melaku, UND
Amy Miller, PaveExpress
Don Moors, INGEVITY/EVOTHERM
Jeremy Moreley, RDO Equipment
James Mullen, Swanston Equipment
Mackenzie Nauman, CHS Inc
Brady Needham, Border States Paving, Inc.
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Dennis Nelson, Williams County
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Rodney Ness, Swanston Equipment
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Gary Porritt, Boulder Products and Services
Kevin Ralphs, NDDOT
Rob Rayhorn, NDDOT
Brandon Reber, Moore Engineering
Nate Renner, Houston Engineering, Inc.
Michael Rivinius, Wold Engineering
Jeff Robinson, Robinson Grinding & Profiling
Justin Rogstad, NDDOT
Rusten Roteliuk, Houston Engineering, Inc.
Christian Rudebusch, NDDOT
John Saiki, Morton County
Darin Schaeffer, Bartlett & West
Dean Schloss, NDDOT
Ryan Schuehle, SRF Consulting
Tim Schulte, Mayo Construction
Joe Schultz, Wold Engineering, PC
Clayton Schumaker, NDDOT
Runn Senn, Flint Hills Resources
Wade Senger, Interstate Engineering
Korby Seward, NDDOT
Karl Shoberg, Unique Paving Materials
Jeff Shoger, Flint Hills Resources
Jared Sjulestad, Border States Paving, Inc
Jeff Smith, Wold Engineering, PC
Justin Smith, City of Watford City
Tom Sorel, NDDOT Director
Thomas Soucy, Cass County
Bernerd Southam, NDDOT
Craig Sperling, NDDOT
Joshua Stuchl, Brosz Engineering
Nabil Suleiman, UND
Jeffrey Swank, NDDOT Materials & Research
Molly Swanston, Swanston Equipment
Ken Swedeen, Dakota Asphalt Pavement Association
Wayde Swenson, NDDOT
Ann Taylor, Brosz Engineering
Sharon Taylor, NDDOT
Ron Tessier, Dakota Asphalt Pavement Association
Gary Trotter, NDDOT
Cole Ude, Ward County Hwy. Dept.
Eli Ulmer, NDDOT
Belinda Urlacher, NDDOT
Eric Urness, Mercer County
Bobby Usher, NDDOT
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Adam Walker, Houston Engineering, Inc.
Brian Walter, Ward County Hwy. Dept.
Dan Wegman, INGEVITY/EVOTHERM
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Scott Whaley, Tensar Corp
Eric Wiedmeier, Border States Paving, Inc.
Ben Williams, WFW Engineers
Joel Wilt, NDDOT
Steve Windish, Ulteig
Shane Winkler, Cass County
Tyler Wollmuth, NDDOT
Tim Wood, Apex Engineering Group
Bryce Wouri, Northern Improvement
Shane Yates, Burleigh County
Carey Yoder, Braun Intertec
Jason Zentgraf, Butler Machinery Company

NOTES

NOTES

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