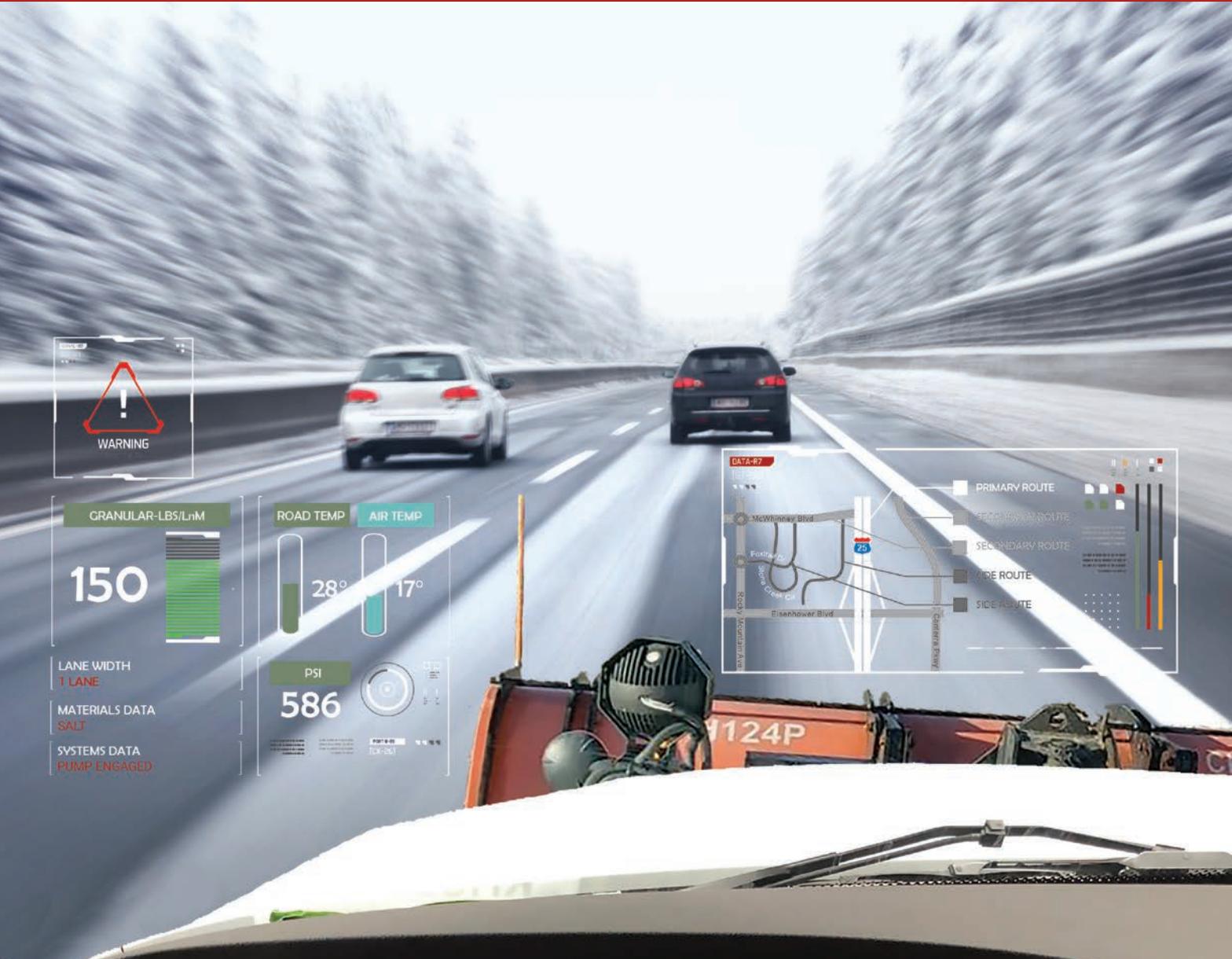


— THE —
FUTURE OF
SNOW OPERATIONS



LETTER FROM THE CHAIRMAN

Dear Snow Colleagues:

I'm excited to invite you to attend the 39th Annual APWA Snow & Ice Conference and National Snow Rodeo September 25-27, 2019 in Loveland, Colorado at the Embassy Suites Conference Center. This year's conference theme – "The Future of Snow Operations" – encompasses the rapid changes we are seeing in the future of transportation that we want to share with you. Automated and autonomous vehicles; balancing levels of service and sustainability; and best practices in technology and management domains are all advancements your agency must prepare for. We're here to help!



With that in mind, this year we are adding a new Operator Training Program. It's the first of its kind in the US! While supervisors can attend, this session is focused on operators, and what they need to know about both common and cutting-edge snow equipment, materials and the future of snow operations.

But operators are not the only ones with an eye on the future. Get ready for three power-packed days of education and training sessions tailored for managers, superintendents, supervisors and operators. Speakers will offer education, training, and operation sessions. Major sponsors will offer educational sessions on a variety of topics, and vendors will exhibit the most up-to-date technology and equipment that will help you, and your agency stay ahead of the coming changes!

Plus, you won't want to miss the National Snow Rodeo, featuring North America's best and most experienced equipment operators. Using five events, we'll test equipment knowledge and driving skills in a competitive setting. As always, participants can register for multiple events. However, new this year, we're adding an All-Around event. We'll award the top three best combined scores from agencies who participate in all five events. So you don't have to get first place in an individual event to earn your plaque, and bragging rights. Prizes are awarded, and it's a fun way to prepare your team for the upcoming winter season.

It is so important for all of us in the snow business to get together to network with our peers. It is vital for managers, superintendents, supervisors and operators to stay involved and learn what new technologies are emerging to keep your agency up to speed. We hope you'll join us.

For more information about the conference and rodeo, visit our website at www.westernsnowandice.com. On behalf of the planning committee, we look forward to seeing you in Loveland this September!

Sincerely,

A handwritten signature in black ink, appearing to read "Larry Schneider".

Larry Schneider, Chairman

39th Annual APWA Western Snow and Ice Conference

MAJOR SPONSORS



SHUTTLE TO THE ROADEO SITE

WEDNESDAY, 9.25.2019

We've made it easier than ever to catch all the fun at the National Snow Rodeo with our free shuttle. It runs all day Wednesday from the north (back) side of the Embassy Suites Conference Center, to the Rodeo Site at the Budweiser Events Center.



FEATURED SPEAKER: AARON DAVIS PRESENTING "THE ATTITUDE OF A CHAMPION"

THURSDAY, 9.26.2019 - 8:30 AM

Attitude, mental toughness and the ability to change and adapt quickly are just a few characteristics that all champions possess. As a member of the Nebraska 1994 National Championship football team, (considered by some as one of the best teams ever assembled), Aaron has a keen understanding of what it takes to achieve incredible results. Today's corporate environment is more competitive than ever before, and it's those who are able to focus when others fold, who consistently stay at the top!

From the age of eight, Aaron Davis was helping his dad work in the evenings as a janitor. Through this experience, Davis learned the importance of having a Champion Attitude, no matter what your role or title is. Davis was a member of the 1994 National Championship Nebraska Football team, is a proud University of Nebraska alumnus with a Psychology degree, and lives in Nebraska with his wife Brooke, their daughter and two sons.



OPERATOR TRAINING PROGRAM **NEW FOR 2019!**

FRIDAY, 9.27.2019 - 7:30 AM - 11:30 AM

We're proud to announce an exciting new Operator Training Program that you'll want to be a part of. It's the first of its kind in the US! While supervisors can attend, this session is focused on operators, and what they need to know about both common and cutting-edge snow equipment, materials and operations. Register now for this half-day session that includes multi-modal techniques, safety tips, equipment review, interactive discussion and other important topics related to snow operations. A certificate of participation will be provided to those who complete the training. **Please note:** There is no additional fee to your conference registration to take part in the Operator Training Program, but pre-registration is required.



MAJOR SPONSORS



WINTER MAINTENANCE SUPERVISOR CERTIFICATE WORKSHOP THURSDAY, 9.26.2019 & FRIDAY, 9.27.2019

The temperature is dropping fast and the weather service says snow and ice are on the way. Do you know how to keep your community's roadways safe?

Though winter maintenance is typically a small portion of a transportation professional's job, it is one of the most visible. Winter storms quickly turn into emergency situations – especially for areas that do not often experience snow and ice. Bridges freeze, accidents happen, and people can die. Does your agency know what to do? We can help!

The APWA Winter Maintenance Supervisor Certificate Workshop provides a well-rounded overview of all aspects of snow and ice control for individuals charged with supervising their winter maintenance operations. This course examines all the aspects of winter maintenance management, including implementing a winter maintenance plan, deciphering winter weather patterns, determining the proper material and equipment to use, examining different snow and ice control techniques, and dealing with unusual winter situations.

The workshop will also consist of testing throughout the day. Attendees receive a certificate of completion upon receiving a score of 80 percent or above. The Winter Maintenance Supervisor Certificate Workshop is a fantastic training opportunity for new supervisors, senior operators, or anyone wanting a good overall understanding of winter maintenance operations. **Please note:** pre-registration is required for this workshop.



FEATURED SPEAKER: BRET HODNE, DIRECTOR OF PUBLIC SERVICES, CITY OF WEST DES MOINES, IA PRESENTING "LEADERSHIP IN A CHANGING WORLD" FRIDAY, 9.27.2019 - 12:30 PM

Leadership is a "term" that gets used extensively today within many organizations. No matter what your personal interpretation of the word is, it can have several meanings. Hodne will address the fact that leadership is way more than positioning yourself for promotions or becoming a manager. True leadership is something all levels of employees should understand and strive for. Discussion topics will include generational and cultural differences, the challenges of implementing change in your agency, trends in the workplace and what it takes to become a highly effective team. The presentation will highlight Hodne's experiences, both good and bad, and how he needed to adapt to meet the challenges and opportunities associated with leadership in today's world.



Bret Hodne joined the City of West Des Moines Public Services Department in 1989. He started his career as an equipment operator before being promoted to the Superintendent of Public Works position in 1994, and into his current position as the Director of Public Services in 2008. Hodne has served as the APWA Iowa Chapter President and Delegate. In 2006 he received the APWA Donald C. Stone Award for Excellence in Education. In 2007 he was selected as an APWA Top Ten Public Works Leaders in North America. Hodne has chaired the National APWA Winter Maintenance Sub-Committee, is a member of the APWA Institute Review Committee and recently chaired the APWA Leadership and Management Committee. With almost thirty years in the industry, he is considered to be one of the premier leaders in the management of winter operations.

TUESDAY / WEDNESDAY AT-A-GLANCE

TUESDAY - 09.24.2019

8:00 a.m. - 12:00 p.m.

Rodeo Course Setup and Judges Orientation

NEW FOR 2019!

3:00 p.m. - 5:00 p.m.

Early Registration for Conference and Rodeo

WEDNESDAY - 09.25.2019

7:00 a.m. - 8:00 a.m.

Rodeo Registration Hours

7:00 a.m. - 3:00 p.m.

Conference Registration Hours

7:00 a.m. - 3:00 p.m.

Exhibitor Hall Hours

COFFEE & SNACK BREAKS
SPONSORED BY




ROADEO WATER
SPONSORED BY



	 Education	 Innovation	 Snow Best Practices	NEW TIMES! Rodeo Events	Major Sponsor Showcase
7:00 a.m.				Rodeo Registration	
8:00 a.m.	An Innovative Way to Build Bridges and Remove Barriers While Reducing Bias	Mobile Sensing			
8:30 a.m.				Rodeo Competitors Orientation	
9:00 a.m.	BREAK - Visit Our Exhibitor Hall				
9:30 a.m.	Whole System, Whole Safety	Lessons Learned About Avalanche Control	Next Steps to Take with Brand New Operators	9:30 AM - 4:00 PM	9:15 AM - Completion Rodeo Competition: Single Axle Tandem Axle Loader Grader Skid Steer
10:30 a.m.	BREAK - Visit Our Exhibitor Hall				
11:00 a.m.	Review of the Epic 2018-2019 Mountain Snow Season and a Look Ahead to the Coming Winter	6 Reasons Why Simulation-Based Training Works	Cleaning Equipment and Care - Getting the Most Out of Your Equipment	Rodeo Written and Diagnostics Test: Single Axle Tandem Axle Loader Grader Skid Steer	McCandless Trucks - International A26 Engine Evolution Edges
12:00 p.m.	Lunch Sponsored by The OJ Watson Group				
					
1:15 p.m.	Permits and Agreements to Reduce Rural Maintenance Costs	Staffing Challenges for Winter Maintenance Operations	Winter Storm Preparation		
2:15 p.m.	BREAK - Visit Our Exhibitor Hall				
2:45 p.m.	An Innovative Way to Build Bridges and Remove Barriers While Reducing Bias	What Agencies are Doing to Promote Sustainability	Liquids 301 - Understanding the Use and Role They Play		EnviroTech Services, Inc. - The Mechanical Rocker Test for Ice Melting Capacity
3:45 p.m.					

6:00 - 9:00 p.m. **"Blades Up" Social Sponsored by 4Rivers Equipment**
Don't miss this opportunity to network with your peers and enjoy a fun-filled night!

NEW DAY!



TUESDAY

-  **Roadeo Course Setup & Judges Orientation //**
8:00 a.m. - 12:00 p.m.
All Roadeo judges and committee members should report.
-  **Early Registration for Conference & Roadeo //**
3:00 p.m. - 5:00 p.m.

WEDNESDAY

-  **Roadeo Registration //** 7:00 a.m. - 8:00 a.m.
-  **Conference Registration Opens //** 7:00 a.m.
-  **Roadeo Competitors Orientation //**
8:00 a.m. - 9:00 a.m.
-  **Roadeo Written & Diagnostics Test - Single Axle, Tandem Axle, Loader, Grader, Skid Steer //**
9:30 a.m. - 4:00 p.m.
-  **Roadeo Competition - Single Axle, Tandem Axle, Loader, Grader, Skid Steer //**
9:15 a.m. - Completion
-  **Morning Tracks //** 8:00 a.m. - 9:00 a.m.
-  **An Innovative Way to Build Bridges and Remove Barriers While Reducing Bias**
Presented By: Jonathan Dickerson, The Center for Relationship Education
Don't miss this innovative approach for strengthening your team and boosting performance in the workplace.

Mobile Sensing

Presented By: Tom Aguilar, Colorado Department of Transportation; Dan Schacher, Alaska Department of Transportation; Bret Hodne, Director of Public Services, City of West Des Moines, IA

Mobile sensors give agencies and operators real-time information to make better decisions, while delivering better forecasting, accurate reporting, and route-specific information. In this session, experts will discuss how they have implemented mobile sensors. Learn how the data helps the operators, the agency, forecasters, and the public. Hear about the evolution of sensors from air and pavement temperature, to modern, plow-mounted units that can give road conditions, and even grip. Open panel discussions are included.

 **Major Sponsor Showcase: McCandless Trucks - International A26 Engine //** 9:30 a.m. - 10:30 a.m.

 **Morning Tracks //** 9:30 a.m. - 10:30 a.m.

Whole System, Whole Safety

Presented By: Kyle Lester, Colorado Department of Transportation

Take an in-depth look into how Winter Operations fits with the "Whole System, Whole Safety" concept.

Lessons Learned About Avalanche Control

Presented By: Scott Mattice; Road & Bridge Manager, Pitkin County, CO and Tim Holbrook, Colorado Department of Transportation

With a winter for the record books, years of avalanche training came into play in the 2018-2019 season for the Pitkin County Road and Bridge crew. This roundtable discussion with Road and Bridge staff and Colorado Department of Transportation crew members will cover the initial attack, evacuation planning, hazard assessment, then mitigation and clean up. It never goes as you planned.

Next Steps to Take With Brand New Operators

Presented By: Brian Rowe, Streets Operations Manager, Town of Windsor, and Jeff Johnston, Street Operations Manager, City of Fort Collins

You've got them hired, now how do you plan to train and on-board your new employees? This session will cover different ways to help get new employees oriented, and cover important topics vital to getting them up and running quickly.

 **Major Sponsor Showcase: Evolution Edges //**
11:00 a.m. - 12:00 p.m.

 **Morning Tracks //** 11:00 a.m. - 12:00 p.m.

Review of the Epic 2018-2019 Mountain Snow Season and a Look Ahead to the Coming Winter

Presented By: Russ Schumaker, Colorado State Climatologist and Head of the Colorado Climate Center at Colorado State University

This session will review the Colorado Climate Center's forecast for the 2018-2019 winter, with a focus on the "epic snowfalls" in February and March, plus the "Bomb Cyclone" in March.

6 Reasons Why Simulation-Based Training Works 
Presented By: Joe Green, L3 Driver Training Solutions
 We'll give you six reasons to come see for yourself why it works, test equipment and try new techniques risk-free in this hands-on snow plow simulation-based training.

Cleaning Equipment and Care - Getting the Most Out of Your Equipment 
Presented By: Dave McDermott, Fleet Maintenance Superintendent (Ret.), City of Council Bluffs, IA
 One of the largest investments made by any agency is in equipment. Maintaining the value of it takes a systematic approach. In this session, we will explore the destructive effects of the environment and neglect on equipment. We will look at how a carefully designed inspection, cleaning, and maintenance program can improve safety, value and the appearance of your equipment.

 **Lunch Sponsored by The OJ Watson Group // 12:00 p.m. - 1:15 p.m.**



 **Afternoon Tracks // 1:15 p.m. - 2:15 p.m.**

Permits and Agreements to Reduce Rural Maintenance Costs 
Presented By: Rod Black, Special Projects Foreman, Gunnison County
 This session will discuss different options for reducing rural maintenance costs by using permits and agreements.

Staffing Challenges for Winter Maintenance Operations 
Presented By: Tony Fietzer, Streets Superintendent, City of De Pere, WI
 Agencies around the country are reporting driver shortages and issues finding good, quality drivers. This session covers hiring best practices, recruiting challenges, and tips for hiring a diverse and evolving team. We'll also look at trainee programs for developing a highly trained CDL workforce.

Winter Storm Preparation 
Presented By: Tom Aguilar, Manny Herrera, and Miguel Tovar, Colorado Department of Transportation
 Take part in an exciting, walk-through, live demonstration of how the Colorado Department of Transportation prepares for an upcoming winter storm.

Major Sponsor Showcase: EnviroTech Services, Inc. - The Mechanical Rocker Test for Ice Melting Capacity: A Test Method to Assess Liquid Deicers // 2:45 p.m. - 3:45 p.m.

Afternoon Tracks // 2:45 p.m. - 3:45 p.m.

An Innovative Way to Build Bridges and Remove Barriers While Reducing Bias 
Presented By: Jonathan Dickerson, The Center for Relationship Education
 Don't miss this innovative approach for strengthening your team and boosting performance in the workplace.

What Agencies are Doing to Promote Sustainability 
Presented By: Tyler Dell, Colorado State University and Susan Strong, City of Fort Collins
 Colorado State University and the City of Fort Collins have continued to partner with the Colorado Stormwater Council evaluating the delivery of chloride to urban streams from snow and ice operations. Two comprehensive analyses were conducted: how plowing and deicing operations provide levels of performance on roadways and the corresponding impact on an urban stream, and how various plowing and deicing operations can impact roadway performance. This session will cover the methods and findings for both studies.

Liquids 301 - Understanding the Use and Role They Play 
Presented By: Marc Valenti, Public Works Director, Town of Lexington, MA
 Many agencies under pressure to reduce the use of chlorides in winter maintenance are switching to liquid-based solutions, including salt brine, other chloride brines, or a blend of these with carbohydrate-based additives. This session explores best practices for using liquids and provides you the tools to weight the associated labor, equipment and material costs.

 **"Blades Up" Social Sponsored by 4Rivers Equipment // 6:00 p.m. - 9:00 p.m.**

NEW DAY!



Don't miss this opportunity to network with your peers and enjoy a fun-filled night!

THURSDAY - 09.26.2019

7:30 a.m. - 3:00 p.m.
8:00 a.m. - 5:00 p.m.

Conference Registration Hours
Exhibitor Hall Hours

NEW TIMES!

COFFEE & SNACK BREAKS
SPONSORED BY

	Education	Innovation	Snow Best Practices	Winter Maintenance	Major Sponsor Showcase
7:30 a.m.	CONTINENTAL BREAKFAST				
8:00 a.m.	CONTINENTAL BREAKFAST				
8:30 a.m.	Color Guard Flag Presentation, National Anthem Sung by Loveland High School Choir and Opening Remarks by Loveland City Manager, Steve Adams, APWA Colorado Chapter President James Phelps, APWA Region IX Director Dan Hartman and APWA Executive Director Scott Grayson. Featured Speaker: Aaron Davis, Presenting "The Attitude of a Champion"				
9:00 a.m.					
9:30 a.m.					
10:00 a.m.	BREAK - Visit Our Exhibitor Hall				
10:30 a.m.	Impacts of Snow and Ice Operations to Pavement Management - The Good, the Bad and the Ugly of Tire Chains on the Highways	Smart Plow Technology - Electric Vehicles and Plows	Stories from the Road	Winter Maintenance Supervisor Certificate Workshop	Kois Brothers - An Arsenal of De-Icing Equipment
11:00 a.m.					
11:30 a.m.	BREAK - Visit Our Exhibitor Hall				
12:00 p.m.	BBQ Lunch				
1:15 p.m.	Public Works Goes to College	Piloting New Products and Equipment	Building a Community of Practice	Winter Maintenance Supervisor Certificate Workshop	Equipment Company of the Rockies - Electric Sweepers
2:15 p.m.	BREAK - Visit Our Exhibitor Hall				
2:45 p.m.	The New Workforce	Friction Measurements Used as a Metric to Evaluate Deicers	How to Set Up a Snow Training Program	Winter Maintenance Supervisor Certificate Workshop	
3:45 p.m.					
4:00 p.m.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>REFRESHMENTS SPONSORED BY</p> </div> <div style="text-align: center;"> <p>PRIZE GIVEAWAY!</p> <p>Exhibit Hall closes at 5pm. Stick around for your chance to win valuable prizes. Be sure to register on the Guidebook app (use QR code to the right) for a list of all available prizes and for your chance to win.</p> </div> <div style="text-align: center;"> </div> </div>				
4:30 p.m.					



 **Opening Ceremony and Featured Speaker // 8:30 a.m. – 10:00 a.m.**

Color Guard Flag Presentation, National Anthem Sung by Loveland High School Choir and Opening Remarks by Loveland City Manager, Steve Adams, APWA Colorado Chapter President James Phelps, APWA Region IX Director Dan Hartman and APWA Executive Director Scott Grayson.

FEATURED SPEAKER: Aaron Davis, Presenting “The Attitude of a Champion”

Attitude, mental toughness and the ability to change and adapt quickly are just a few characteristics that all champions possess. As a member of the Nebraska 1994 National Championship football team, (considered by some as one of the best teams ever assembled), Aaron has a keen understanding of what it takes to achieve incredible results. Today’s corporate environment is more competitive than ever before, and it’s those who are able to focus when others fold, who consistently stay at the top!



Morning Tracks // 10:30 a.m. – 11:30 a.m.

Impacts of Snow and Ice Operations to Pavement Management - The Good, the Bad and the Ugly of Tire Chains on the Highways 

Presented By: Jeff Tatkenhorst, Highway Maintenance and Operations Superintendent and Neal Retzer, PE, Colorado Department of Transportation

This session will discuss the pros and cons that tire chains have on the I-70 mountain corridor. Discussion will include: road conditions, chain law implementation, chain stations, chain law enforcement, and the effect they have on pavement surfaces, along with the financial impact.

Smart Plow Technology - Electric Vehicles and Plows 

Presented By: Pat Kennedy, City and County of Denver
Come learn what the future holds for diesel, CNG, and electric plow trucks. See what current technology agencies are using today and how it affects your operations. Will plow trucks be autonomous in the future?

Stories from the Road 

Presented By: Casey Schroeder and Kacey Grosskreuz, Summit County Road & Bridge

This popular session is back again! Hear different stories, from horrific to hysterical. Attendees from different agencies are encouraged to join in with their stories.

 **Major Sponsor Showcase: Kois Brothers - An Arsenal of De-Icing Equipment // 10:30 a.m. – 11:30 a.m.**

 **Winter Maintenance Supervisor Certificate Workshop // 11:00 a.m. – 4:30 p.m.** 

 **BBQ Lunch // 12:00 p.m. – 1:15 p.m.**

 **Afternoon Tracks // 1:15 p.m. – 2:15 p.m.**

Public Works Goes to College 
Presented By: Susan Baillargeon, Associates Degree Program Manager, Front Range Community College

The Colorado Department of Transportation, Front Range Community College and state partners like APWA and LTAP have teamed up to develop the first-in-the-nation two-year Associate of Applied Science in Highway Maintenance Management degree program. This session will show public works employees how they can up their game to meet the demands of the future and get a jump start on the degree with work experience transfer credit. Learn how to achieve your professional goals and earn your degree entirely online.

Piloting New Products and Equipment 

Presented By: Mark DeVries, Solutions Manager, Vaisala, Inc.; Dan Schacher, Alaska Department of Transportation; and Bret Hodne, Director of Public Services, City of West Des Moines, IA

Have you ever been asked to try something new? Have you been asked to be part of an evaluation or a pilot program? In this session, we will hear about what is involved. We will discuss the evaluation and documentation process and how the results may or may not benefit an agency, the vendor and the industry. These presenters have all been asked to participate in studies like these and they will share their experience in evaluating new equipment, new deicing products and new programs.



Building a Community of Practice

Presented By: Wilfrid Nixon, Professional Snowfighters Association

A challenge in any area is to ensure the flow of good ideas to all the people who would like to use them (if they only knew about it!). Put another way, there is no real benefit to reinventing the wheel, particularly if inventing it was expensive and frustrating. In winter maintenance we have some ways to share those good ideas (and, yes, the bad ones too!) and this presentation will discuss those methods and investigate new ones. In particular, the presentation will explore how agencies and individuals can "plug into" the winter maintenance community of practice as effectively as possible.



Major Sponsor Showcase: Equipment Company of the Rockies - Electric Sweepers //

1:15 p.m. – 2:15 p.m.



Afternoon Tracks // 2:45 p.m. – 3:45 p.m.

The New Workforce

Presented By: Keith Reester, Reester and Associates



Today's workforce is a work in progress. Organizations are struggling to find and keep top talent. There are fewer people available to fill positions. Employees are demanding more, and the future is rapidly changing. Our industry is a desirable place to work once we get people involved. This session will feature data from a Reester and Associates survey that reviewed national workforce issues unique to our industry. Keith will focus on the makeup and character of the current employment landscape, and what you can do to attract and retain top team members and have some fun in the process.

Friction Measurements Used as a Metric to Evaluate Deicers



Presented By: Steve Clark, PhD, EnviroTech Services, Inc.

Montana State University's Western Transportation Institute and EnviroTech Services, Inc. are collaborating to develop a new deicer performance methodology based on friction. The goal is to utilize friction sensors with simulated traffic in a repeatable, controlled environment. Primary focus will be on analyzing the effectiveness of a variety of commercially available deicers with friction; assessing what type of information needs to be shared with various stakeholders to address automation within winter maintenance operations; and asking questions about the research findings presented in these two samples.

How to Set Up a Snow Training Program



Presented By: Justin Decker and Darryl Wilson, Colorado Department of Transportation

Does your agency have a snow training program? Learn about how CDOT trains for winter maintenance before their operators and supervisors drive the snow plows.



Prize Giveaway in the Exhibitor Hall //

4:00 p.m. – 5:00 p.m.

REFRESHMENTS SPONSORED BY



Northwest Equipment Sales, Inc.

The Exhibit Hall closes at 5pm. Stick around for your chance to win valuable prizes. Be sure to register on the Guidebook app for a list of all available prizes and for your chance to win.



Education Tracks



Innovation Tracks



Snow Best Practices Tracks



Winter Maintenance



FRIDAY - 09.27.2019

7:30 a.m. - 11:00 a.m. Conference Registration Hours

COFFEE & SNACK BREAKS
SPONSORED BY

	Education	Innovation	Snow Best Practices	Winter Maintenance	Operator Training
7:30 a.m.					
8:00 a.m.	Winter Equipment Preparation	Generational Differences in the Workplace	CDL Pre-Trip / Post-Trip Hands-On Training	Winter Maintenance Supervisor Certificate Workshop (8:00 a.m. - 11:30 a.m.)	Operator Training Program (7:30 a.m. - 11:30 a.m.)
9:00 a.m.					
9:10 a.m.	Using Traffic Data to Measure Snow Removal Performance	Transforming Your Organizational Culture	Hands-On Calibration		
10:15 a.m.	BREAK				
10:30 a.m.	Snow and Ice Operations in Extreme Cold Temperatures	Past, Present and Future - the Evolution of Alaska DOT & PF Snow Operations	CDOT Avalanche Mitigation 2018-2019		
11:00 a.m.					
11:30 a.m.	Awards Banquet Luncheon With Featured Speaker: Bret Hodne, City of West Des Moines, IA, Presenting "Leadership in a Changing World" Plus: Rodeo Awards and Major Prize Drawings				
12:00 p.m. - 2:00 p.m.					

DON'T MISS A GREAT LUNCH, FANTASTIC PRIZES (MUST BE PRESENT TO WIN), AND AN EXCITING PRESENTATION BY BRET HODNE.



 **Operator Training Program //**
7:30 a.m. - 11:30 a.m.



Hands-On Calibration



Presented By: Bob Puccio, FORCE America

Get a quick reminder and training on hands-on calibration.

 **Winter Maintenance Supervisor Certificate Workshop //** 8:00 a.m. - 11:30 a.m.



Morning Tracks // 10:30 a.m. - 11:30 a.m.

 **Morning Tracks //** 8:00 a.m. - 9:00 a.m.

Winter Equipment Preparation



Presented By: Gary Smith, Fleet and Facilities Supervisor, Arapahoe County

Get ideas for how to effectively change your equipment and shops from season to season.

Snow and Ice Operations in Extreme Cold Temperatures



Presented By: Corey Rivera, Public Works AM Snow Manager, City of Colorado Springs

Get a detailed look at several types of snow and ice operations and materials. Learn when and where these material techniques are best used, at what temperatures they are most effective, and at what temperatures they become ineffective.

Generational Differences in the Workplace



Presented By: Sarah Schacher, Preconstruction Engineer, Alaska Department of Transportation and Bret Hodne, Director of Public Services, City of West Des Moines, IA

There are more generations in the workplace than ever before - which impacts individual goals, life influences and behaviors. Come listen to why generational differences are important to recognize and understand, including what employees value, and the work environment they seek.

Past, Present and Future - the Evolution of Alaska DOT & PF Snow Operations



Presented By: Dan Schacher, Alaska Department of Transportation and Mike Coffey, Alaska Department of Transportation (Ret.)

Since statehood in 1959, little had changed in Alaska's snow removal operations beyond minor equipment configurations and operators in the seats. However, in the last 15 years, Alaska's snow operations have undergone substantial and meaningful changes, including adjustments to plow routes and work shifts, equipment innovations, and implementation of new technologies. See Alaska's evolution from the past into the present day, and their vision moving forward.

CDL Pre-Trip / Post-Trip Hands-On Training



Moderated By: Shawn Searson, City of Colorado Springs and Larry Lovato, City and County of Denver

Join this session to perform a hands-on pre- / post-trip inspection on a CDL vehicle, utilizing both the standard paper form as well as an ELD (electronic logging device).

 **Morning Tracks //** 9:10 a.m. - 10:15 a.m.

Using Traffic Data to Measure Snow Removal Performance



Presented By: Mike Comstock, Traffic Engineer and Allen Peterson, Road and Bridge Manager, Arapahoe County

Mike and Allen share their knowledge and expertise from two separate disciplines in order to capitalize on the data received to both reduce traffic congestion and provide timely deicing/anti-icing winter management services.

CDOT Avalanche Mitigation 2018-2019



Presented By: Jamie Yount, Avalanche Program Manager, Colorado Department of Transportation

During the Winter of 2018-2019, Colorado experienced an unprecedented statewide avalanche season that closed highways, destroyed large tracts of mature forest, and impacted homes and structures. The effect on the state transportation network was immense, with 500 avalanches reaching the highway and 3,000 hours of road closures recorded for mitigation and clean-up operations. This presentation summarizes the historic nature of the events and the massive statewide mitigation and clean-up effort.

Transforming Your Organizational Culture



Presented By: Douglas Stern, Road Operations Manager and Jim Katzer, Infrastructure Manager, Arapahoe County

Doug and Jim will highlight how they've transformed their organization whereby employees hold each other accountable for quality results and work together while striving for excellence everyday.



Awards Banquet Luncheon and Featured Speaker // 12:00 p.m. - 2:00 p.m.

12:30 p.m. - **Featured Speaker:** Bret Hodne, Director of Public Services, City of West Des Moines, IA Presenting "Leadership in a Changing World" (See page 4.)

Plus, join us for the Rodeo Awards and major prize drawings.

NATIONAL SNOW ROADEO



The National Snow Roadeo is an exciting one-day event that tests the skills and knowledge of equipment operators from around the country.



The competition offers five events. Each event includes a written and diagnostic vehicle inspection, and a timed obstacle course. Participants can register for one event or multiple events.

- + Single Axle Snow Plow (two-person)
- + Tandem Axle Snow Plow (two-person)
- + Loader (individual)
- + Grader (individual)
- + Skid Steer (individual)



Bring your family and friends to cheer you on and watch you in action as you compete. One of the biggest pleasures is watching so many talented equipment operators show off their skills in the Roadeo events. It's not often that family and friends get a chance to watch, in a safe environment, what you do day in and day out in the winter.

IT'S A FESTIVE ATMOSPHERE WITH ACTIVITIES SURE TO PLEASE EVERYONE ATTENDING.

Prizes and trophies for all events will be awarded at the Roadeo Awards Luncheon held Friday afternoon. Winners will also be recognized nationally by APWA.

For questions contact Roadeo Co-Chairmen Wes Templeton at wesley.templeton@state.co.us or Jerry Trujillo at Jerry.Trujillo@greeleygov.com.



New this year, we'll award the top three best combined scores from agencies who participate in 3 out of 5 events. So you don't have to get first place in an individual event to earn your plaque, and bragging rights!

NEW!
ALL-AROUND EVENT
ADDED FOR 2019!

Register Your Team Now for the Best Rates!	By 9/17	After 9/17	By 9/24	Day Of 9/25
Full Conference Registration (Includes One Roadeo Event and a Seat at Friday's Awards Luncheon)	\$275	\$300		
One-Day Conference Registration (Includes a Seat at Friday's Awards Luncheon. Does Not Include Any Roadeo Events.)	\$125	\$150		
Each Roadeo Event Registration, Per Person, Per Event	\$100		\$150	\$200

BRING YOUR SPOUSE

Bring your spouse along to enjoy all the wonderful activities and attractions in, and around Loveland! There is shopping at nearby Centerra, museums, local brewery tours, golf, or visit world-renowned Rocky Mountain National Park and hike or bike one of the many trails! The Embassy Suites also offers a full service spa with a variety of high quality treatments to help you both relax and unwind. You may want to register your spouse as a guest if they'd like to enjoy the meals at the conference. Tickets are required.

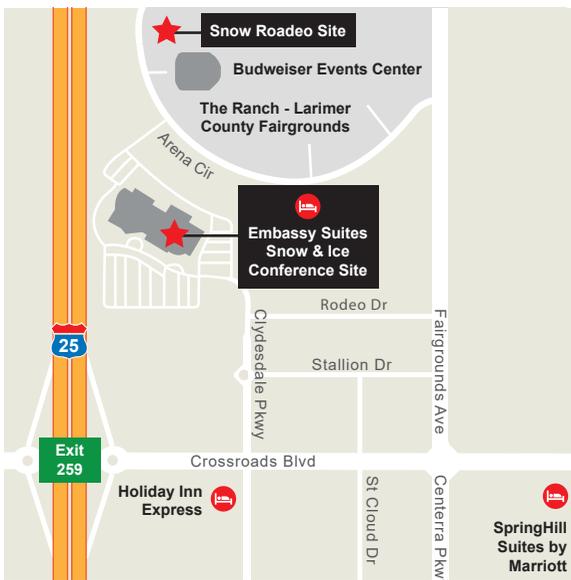
ACCOMMODATIONS

The following is a list of recommended hotels that are offering discounted conference rates. Most of the hotels are holding blocks of rooms through late August, so make your reservation as early as possible to ensure you get the location, rate, and number of rooms you prefer. Be sure to mention the Snow & Ice Conference to get the discounted rate.

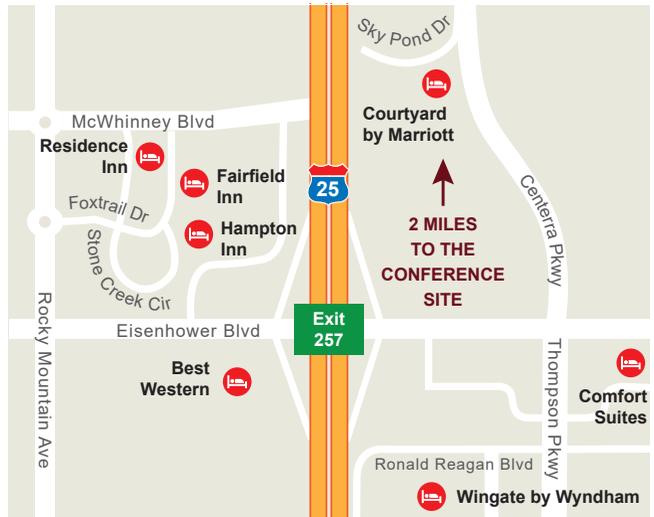
HOTEL NAME	ADDRESS	PHONE	CONFERENCE RATE	NOTES
Embassy Suites (Headquarters Hotel)	4705 Clydesdale Pkwy	970-593-6200		SOLD OUT
Best Western	5542 E US Highway 34	970-667-7810	\$109	Must book by 8/25 for conference rate
Courtyard by Marriott	6106 SkyPond Dr	970-599-7171	\$159	Must book by 8/25 for conference rate
Fairfield Inn	1710 Foxtrail Dr	970-461-1000	\$144	Must book by 8/25 for conference rate
Hampton Inn	5500 Stone Creek Cir	970-593-1400	\$154	Must book by 8/25 for conference rate
Residence Inn	5450 McWhinney Blvd	970-622-7000	\$149	Must book by 8/25 for conference rate
Wingate by Wyndham	5360 Ronald Reagan Blvd	970-578-0966	\$109	Must book by 9/5 for conference rate
Comfort Suites	4851 Thompson Parkway	970-663-3300	\$149	Must book by 8/25 for conference rate
Holiday Inn Express	6092 E Crossroads Blvd	800-315-2621	\$149-\$159	Must book by 8/26 for conference rate
SpringHill Suites (Marriott)	6428 Crossroads Blvd	970-795-8800	\$159	Must book by 9/3 for conference rate

Please Note: Those with a range of prices are offering more than one style of room to conference participants. Most are extending rates for early arrivals and late departures. Please inquire with the hotel during reservations. If tax exempt, please notify the hotel when making a reservation. Deposit and cancellation policies will be unique to each hotel. Please inquire with the hotel when making a reservation.

CONFERENCE LOCATION



ADDITIONAL HOTELS





WEDNESDAY, 9.25 - FRIDAY, 9.27.2019
 EMBASSY SUITES, LOVELAND, CO - (970) 593-6200
 VISIT THE CONFERENCE WEBSITE FOR ADDITIONAL INFORMATION
 AND TO REGISTER: WWW.WESTERNSNOWANDICE.COM

EXCLUSIVE ONLINE REGISTRATION

Conference fees include: reference and materials packet, prizes, educational sessions, participation in one (1) Rodeo event (see below for additional Rodeo event costs), entrance to exhibitor areas, break refreshments sponsored by Auto Truck Group and Neverest Equipment, BBQ lunch on Thursday, Wednesday lunch sponsored by The OJ Watson Sponsorship Group, Wednesday "Blades Up" Social sponsored by 4Rivers Equipment, Thursday Prize Giveaway with refreshments sponsored by Northwest Equipment Sales, Inc. and Friday Awards Banquet Luncheon.

VISIT WWW.WESTERNSNOWANDICE.COM TO REGISTER TODAY!

FULL CONFERENCE REGISTRATION	ONE-DAY REGISTRATION
Full Conference Cost: <input type="checkbox"/> \$275 by 9/17 <input type="checkbox"/> \$300 after 9/17	<input type="checkbox"/> WED <input type="checkbox"/> \$125 by 9/17 <input type="checkbox"/> \$150 after 9/17 <input type="checkbox"/> WED w/ Rodeo <input type="checkbox"/> \$125 by 9/17 <input type="checkbox"/> \$150 after 9/17 (see below for details) <input type="checkbox"/> THUR <input type="checkbox"/> \$125 by 9/17 <input type="checkbox"/> \$150 after 9/17 <input type="checkbox"/> FRI <input type="checkbox"/> \$125 by 9/17 <input type="checkbox"/> \$150 after 9/17

GUEST REGISTRATIONS	BRING YOUR SPOUSE
<input type="checkbox"/> \$80 - Includes Wednesday lunch, Thursday BBQ lunch, and Friday Awards Banquet	

WINTER MAINTENANCE SUPERVISOR CERTIFICATE WORKSHOP // OPERATOR TRAINING PROGRAM	
<input type="checkbox"/> \$25 - In Addition to the Conference Registration Registration is Required!	<input type="checkbox"/> No Additional Cost (to the Conference Registration) Registration is Required!

ROADEO REGISTRATION

Full conference registration includes one rodeo event; additional events are \$100/event by 9/17; \$150 by 9/24; \$200 day-of 9/25. Wednesday one-day registrations may participate in the rodeo at a cost of \$100/event by 9/17; \$150 by 9/24; \$200 day-of 9/25. (in addition to the conference registration fee) - includes a seat at Friday's Rodeo Awards Banquet and Conference Closing.

Visit www.westernsnowandice.com to register. Please include all names of participants who are going to compete in the Rodeo when you complete the online form. If you do not know the names of attendees at the time of registration, please list them as your agency #1 (e.x. City of Fort Collins #1), and then email the confirmed names to bdweimer@msn.com.

	IF ADDITIONAL	BY 9/17	BY 9/24	DAY OF 9/25		IF ADDITIONAL	BY 9/17	BY 9/24	DAY OF 9/25
<input type="checkbox"/> Single Axle Plow		\$100	\$150	\$200	<input type="checkbox"/> Loader		\$100	\$150	\$200
<input type="checkbox"/> Tandem Axle Plow		\$100	\$150	\$200	<input type="checkbox"/> Grader		\$100	\$150	\$200
<input type="checkbox"/> Skid Steer		\$100	\$150	\$200					

REGISTER EARLY. SAVE MONEY!

REGISTRATION AND PAYMENT OPTIONS

ALL REGISTRATIONS MUST BE COMPLETED ONLINE. VISIT WWW.WESTERNSNOWANDICE.COM TO PAY BY CREDIT CARD.

Cancellations must be processed online using the confirmation code obtained in the original confirmation email by September 9, 2019 to receive a refund.

QUESTIONS: Contact Pam Weimer at bdweimer@msn.com.

APWA WESTERN
SNOW & ICE[®]
CONFERENCE AND NATIONAL SNOW ROADEO
c/o PAMELA WEIMER
6540 S. TABOR ST.
LITTLETON, CO 80127



REGISTER ONLINE AT WWW.WESTERNSNOWANDICE.COM

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SNOW OPERATIONS**

