

Class Descriptions

4th RMLA Conference — May 6-9, 2019

Electrical Classes:

E-1 Introduction to Basic Electricity

Mike Taylor • Keystone Resort

Tuesday - May 7, 2019 • 10:30 a.m. • County/Elections Rm

This course will cover the basics of electricity and will expand upon various electrical components typically found on ski lifts. Bring a calculator.

E-3 Troubleshooting Comm-Lines and Mechanical Deropement Switches

Mike Taylor • Keystone Resort

Tuesday - May 7, 2019 • 1:00 p.m. • Plateau Creek

This course utilizes a mock Comm-Line to demonstrate what type of faults can occur and how a digital multi-meter can be used to diagnose electrical problems. Prerequisite for this course is E-1 (Introduction to Basic Electricity) if one is not familiar with electrical power flow.

E-5 Using Vibration Analysis and Infrared Thermography to Monitor Machinery Health

Tim Williams • Vail Resorts, Inc.

Thursday - May 9, 2019 • 10:30 a.m. • Whitewater Creek

This course will look at the benefits of Vibration Analysis and Infrared Thermography as tools to include in a comprehensive preventive maintenance program. We will cover the basics of vibration analysis, the frequency spectrum and time waveforms, and the signatures of general faults such as misalignment, unbalance, gear mesh, bearing defects, and electric motor problems. We will also look at how Infrared technology can be used to diagnose electrical issues and prolong machinery life.

E-8 AC Motor Principles & Best Maintenance Practices

Jonathan Schmucker • Integrated Power Services

Wednesday - May 8, 2019 • 10:30 a.m. • Parking Classroom

Primary issues that will be covered are basic electric motor maintenance and A/C motor fundamentals. Intended audience would be maintenance personnel and reliability engineers. Takeaways from the class would include history of A/C power, best maintenance practices, and A/C motor fundamentals.

E-9 Fuseology: Overview, Application, and Selection

Bruce Dube • Intermountain Fuse Supply

Wednesday - May 8, 2019 • 10:30 a.m. • Fairfield - La Court

What is a fuse? Why fuse? Types of Fuses? Fast or slow? Current Limiting? How do I size a fuse for a particular application? These questions and many more will be answered during the presentation. A short open book quiz including fuse and sizing problems will follow the presentation.

Class size will be limited to 25 students. "First come, first served"

E-10 Grounding and Lightning Protection for Ski Lift Operations

Joe Lanzoni • Lightning Eliminators & Consultants, Inc.

Wednesday - May 8, 2019 • 1:30 p.m. • Fairfield - Mesa

Lightning can interrupt normal lift operations and damage related lift equipment. This presentation will explain how lightning forms and how electrical surges are created. It will also cover various lightning and surge protection equipment and techniques. And because grounding is an inherent part of lightning protection, and grounding is difficult in rocky locations, it will also cover grounding principles, techniques and test methods.

E-11 Low Voltage Control Circuits -The Basics

Bruce Wyman • S-K-I Electric

Tuesday - May 7, 2019 • 10:30 a.m. • Springhill - Main St

A critical component and often times the least understood is the low voltage control circuit on your equipment. This class will begin with circuit operation, components often used, and how the circuits actually work.

E-13 Rope Position Detection (RPD) - Doppelmayr Systems

Mike Taylor • Keystone Resort

Thursday - May 9, 2019 • 8:30 a.m. • Fairfield - Mesa

This class will explain how proximity switches produced by Efector are utilized for haul rope location by Doppelmayr. The two methods of deropement detection (Matrix and Individual tower) will be explained along with the troubleshooting of each system. There will be a demo of the Efector switch showing the function of the sensor.

E-16 CPS's - Troubling Shooting Tower Faults

Sam Tryczak • Snowmass Ski Area

Thursday - May 9, 2019 • 8:30 a.m. • Parking Classroom

This session will address Poma style C.P.S. faults including: Introduction to trouble shooting, 3-wire switches, 4-wire old style switches; 4-wire new style switches & 5-wire newest switches.

E-18 Basic Networking and Communications

Matt Smolskis • TMMI

Wednesday - May 8, 2019 • 3:15 p.m. • Fairfield - Mesa

Panel with Ryan Henrichs

Industrial Networking and Communication Basics, Cabling and Connectors, Layer I and II Switches, Industrial Protocols and Cyber Security.

E-19 AC & DC Motor Maintenance and Trouble Shooting

Randy Keener • Torq Engineering

Tuesday - May 7, 2019 • 1:00 p.m. • Spring Hill - Monument

This class discusses electrical and mechanical failure mechanisms of electric motors including bearings, lubrication, power quality, insulation assessment, alignment, balancing, vibration and DC brushes, holders and springs. This presentation will cover the common causes of bearing failures in AC & DC motors resulting from induced electrical currents, especially prevalent when VFD drives are installed. The attendees will learn how to identify these bearing failures and how to address the problem. Identifying and implementing a solution will provide significantly reduced downtime and major cost savings from reduced motor failures. The presentation will feature a "hands on" format and demonstration.

E-20 Electrical Switches 101 - Bridging the Gap Between Electrical and Mechanical

Matt Steel • Powder Mountain

Thursday - May 9, 2019 • 8:30 a.m. • Springhill - Main St

Ski Lifts are no different than any other machine that incorporates mechanical movement with electrical control. Whether you are a mechanic or an electrician, understanding switch types and their application is vital to lift operation and reducing downtime. We will look at a wide variety of mechanical, electro-mechanical, and electronic switches. We will also discuss physical location, function, and their relationship to a schematic.

E-21 Applying Annex J Functional Safety 3-Hour Class

Will Hartman • SkyTrac

Wednesday - May 8, 2019 • 1:30 p.m. • Plateau Creek

This class starts with an overview and education of applying Functional Safety to Machines. Then, we will present a variety of typical circuit examples, show how to determine Functional Safety Levels, and discuss the technology implemented with these devices. Focus is more on better understanding these devices to aid in the Troubleshooting and Maintenance of them. Application examples will be what is typically implemented and required from the ANSI B77 Standard.

E-22 Experiments in DC-SCR Drive tuning

Jamie Bunch • SCJ Alliance

Tuesday - May 7, 2019 • 3:00 p.m. • Fairfield - Mesa

The presentation will discuss recent experience with DC drive adjustments and tuning. A number of lifts have indications of dynamic behavior with speed changes. Depending on the adjustment of drive parameters, the dynamic action can be made worse or improved. There are various methods of adjusting the drive parameters. The presentation will discuss the application of the Zeigler-Nichols method and some experiences with various procedures.

E-23 Lighting/Surge Protection & The Coordination of Technologies

William Purcell • MeterTreater, Inc.

Wednesday - May 8, 2019 • 3:15 p.m. • Whitewater Creek

This presentation is geared towards electrical lift maintenance personnel and reviews the applications of Surge Protection as it relates to issues associated with operating electrical systems in real world environments. Material covered will provide insight on what to protect, how to select the technology/protector, and where to interface/install with specific emphasis on application coordination. Discussions will include lift operating systems, drives, proximity (PROX) switches, weather instrumentation, security systems (access control, video & alarm), plus computers and communications networks. Grounding and bonding principles will be reviewed due to their critical relationship to system performance and personnel safety.

E-24 Electrical Switches 201 - Bridging the Gap Between Electrical and Mechanical

Matt Steel • Powder Mountain

Thursday - May 9, 2019 • 10:30 a.m. • Springhill - Main St

Building on the topics covered in Electrical Switches 101, we'll go more in-depth with understanding schematics and printreading. Basics of a Multimeter with the focus of troubleshooting control circuits.

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4th RMLA Conference — May 6-9, 2019

E-26 Transformers 101 - What you need to know

Bruce Wyman • S-K-I Electric

Tuesday - May 7, 2019 • 3:00 p.m. • Plateau Creek

One of the most critical components of your installation is the electrical transformer. These sessions will begin with how transformers operate, the different types, different voltage levels, and how they are connected.

General Classes:

G-1 Update on NSAA 's Lift Maintenance Resource Guide

Michael Weiss

Tuesday - May 7, 2019 • 1:00 p.m. • Springhill - Main St

We will discuss the development, progress, and specific categories that are being included in the LMRG. NSAA intends for this document to guide all Ski Areas in the development of their Lift Maintenance training programs.

G-2 Knots - Slings - and Other Things

Greg Baldacci • Park City Mountain Resort

Thursday - May 9, 2019 • 8:30 a.m. • Spring Hill - Monument

"Knot" is a term used to loosely describe any one of many ways to attach (cordage, rope, webbing) to an object. You only need to know about five basic knots that will hold the load and then come undone easily (without using a knife). We will also do an end splice and a back splice on a rope, a "Flemish" eye in a wire rope and build some other interesting slings.

G-4 Leitner-Poma of America - Manufacturers Session

Rod Stocking • Leitner-Poma of America, Inc.

Wednesday - May 9, 2018 • 10:30 a.m. • Springhill - Main St

Interactive discussion with engineering and service staff regarding the products and services we offer, annual and periodic maintenance procedures, problem resolution. Session intended for current and prospective lift users/operators. Rod Stocking-Service Manager, Jeremiah Frazier-Electrical Service Engineer, Jeff Copeland-Design Engineer, Nelson Tusberg-Design Engineer, Charles Atchison-Electrical Engineer, Wyatt Breed-Sales Representative.

G-6 Fixed Grip Migration, Jaw and Rope Marks – The Good, the Bad and the Ugly

Gary Mayo • Doppelmayer USA, Inc.

Tuesday - May 7, 2019 • 10:30 a.m. • Kannah Creek

Migration of fixed grips is a source of concern for lift operators. What causes the grips to migrate and where does it occur? What about the safety factor of 3 to slippage? Why is the amount of migration different on various installations? How much migration is too much? What if the grips don't migrate at all? What damage can be done to the wire rope by migrating grips or lack of migration? What can I learn from the marks the rope leaves in the grip jaws? Should I be concerned about those marks? This class addresses all of these questions along with some interesting examples of good, bad, and ugly migration. Come with questions to ask and discuss.

G-7 Basic Math and Physics for Lift Mechanics 101

Chuck Peterson • Tramway Engineering

Wednesday - May 8, 2019 • 10:30 a.m. • Hampton - Grand Room

The course will focus on the basics of how numbers and the combination of units of length, mass, and time form the foundation of all mathematics for lift mechanics. The course will introduce simple Newtonian physics for the understanding of forces on lifts.

G-9 Advanced Ski Lift Math and Physics

Michael Lane • National Ski Areas Association

Wednesday - May 8, 2019 • 3:15 p.m. • Spring Hill - Monument

The 201 and 301 Class for Lift Math- an overview w/ enough detail to get you thinking. No calculator needed – over view and design understanding. The class contains a brief refresher on simple lift calculations such as capacity, speed, intervals, then moves to understand why certain Lift configurations are more costly, then expanding to what actually happens in the design process.

G-10 The Growing Value of Chairlift Video Surveillance

Dave Byrd • National Ski Areas Association

Tuesday - May 7, 2019 • 1:00 p.m. • Kannah Creek

This session will dive into specific operational considerations when adopting and using video surveillance with chairlift operations at loading or unloading areas. We will discuss the infrastructure considerations, the costs, the training benefits, and ROI on investment—particularly with guest complaints or injuries. The use of surveillance is growing at ski areas across the country, not just with lift operations, but summer activities as well (zip lines, coasters, etc). We will highlight examples of video surveillance from across the country to underscore the impact it can have with operations, training, and litigation, and discuss new tax law benefits that make video surveillance even more inexpensive.

G-13 Detachable Mechanical Roundtable What We Are Seeing?

Scott Uren • Keystone

Thursday - May 10, 2019 • 8:30 a.m. • Gunnison River Ballroom

This class will be an open discussion on what issues we are seeing on our detachable, and what tools, practices, and changes are we seeing/doing. There are some older detachables out there! Lets talk about the challenges everyone is dealing with to keep them going and what mechanics/management are doing to deal with the issues. What behind the scenes challenges are you seeing with all the new bells and whistles? No topic is off limits!! Be ready to bring your problems/comments to the class to help exchange ideas or problems for some good discussions.

G-14 Does This Happen At Your Area? Older Fixed Grip Mechanical Roundtable

Scott Uren • Keystone

Tuesday - May 7, 2019 • 10:30 a.m. • Fairfield - La Court

This session will initially look at the following issues, but will branch out as questions are raised.- Spacing of chairs and removal of chairs on older lifts;- Reduce Gauge bullwheel to tower alignments;- Slip Testing of grips.

G-16 OSHA Deep Dive: Analyzing 3 Unique Employee Lift Safety Injuries, Panel with Tom Scully

Dave Byrd • National Ski Areas Association

Wednesday - May 8, 2019 • 1:30 p.m. • Kannah Creek

Last season, ski areas experienced a number of employee injuries and resulting OSHA inspections. This session will take a deep dive into three unusual lift-related incidents involving ski area employees—all significant injuries or fatalities—and analyzing the facts behind each incident, and how these ski areas and OSHA individually responded. The issues of employee misconduct, resort policies and procedures, OSHA compliance standards, drugs, even the media responses will be addressed—and how the resorts prepared for OSHA investigations—will provide a great exploration of what can happen with serious employee injuries, their prevention, appropriate workplace safety procedures, and the best approaches to minimizing serious OSHA fines and citations—not to mention future employee injuries.

G-22 Magic Carpet Conveyors

Dave Kelly • Magic Carpet Lifts/RMCE, Inc

Wednesday - May 8, 2019 • 3:15 p.m. • Springhill - Main St

Dave Kelly, Jennifer Kelly, and Audrey Paulus will lead a discussion on Magic Carpet Conveyors, Safety and New Technologies.

G-23 Doppelmayer Manufacturers Session

Shawn Marquardt • Doppelmayer USA, Inc.

Wednesday - May 8, 2019 • 1:30 p.m. • Escalante Creek

Round Table Discussions and Question and Answer Session.

G-24 Using Metrics to improve Maintenance and Staff Engagement

Bob Ackland • Steep Management

Wednesday - May 8, 2019 • 10:30 a.m. • Spring Hill - Monument

Audience should be those with supervisory responsibilities. Attendees will understand how they can deepen the engagement of their staff to take ownership of their work. The value of metrics will be discussed as a tool to engage in a positive way with their staff to enhance retention probabilities and to increase the overall productivity of the maintenance department.

G-25 Maintenance in the Ski Area - The Real Relationships and Dependencies Within the Ski Area

Bob Ackland • Steep Management

Wednesday - May 8, 2019 • 1:30 p.m. • Spring Hill - Monument

Audience should be those with supervisory responsibilities. Attendees for Maintenance in the Ski Area will get a sense of relationships and dependency with and on others in the ski area for success and see the relationship of maintenance with the outside factors that impact their work as well as factors that impact the total performance of the ski area. The class will develop the relationships of a maintenance task/ position up through the workings of the ski area. This will be done using functional relationship mapping to visually connect the dots.

G-26 A Review of the Recent Dynamic Events

Larry Smith • Colorado Passenger Tramway Safety Board

Tuesday - May 7, 2019 • 10:30 a.m. • Escalante Creek

This presentation will go into depth regarding recent investigations into observed dynamic responses in lifts. The presentation will include a review of the current work of CPTSB Subcommittees addressing multiple areas regarding dynamic events.

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G-27 Documentation and Record Keeping - Moving it Forward

Michael Weise

Thursday - May 9, 2019 • 8:30 a.m. • Whitewater Creek

This session is for Managers, Supervisors and Technicians. We will discuss changes relating to Operations and Maintenance from the ANSI B77.1-1 2017 update, the various forms you should have in place as well as the need to review them periodically to keep them up to date. We will also discuss the need to develop written procedures for the work that you do. Please bring your experiences, procedures and questions to share with the group.

Maintenance Classes:

M-1 Introduction to Wire Rope and Inspections

RJ Knight • Knight Equipment Co.

Tuesday - May 7, 2019 • 1:00 p.m. • Hampton - Grand Room

Panel with Justin Knight

Terminology, construction use; how wire rope is made, basic inspection. What to look for during your weekly and monthly inspections. ANSI B77.1 requirements.

M-4 Lift System Upgrades

Clyde Wiessner

Wednesday - May 8, 2019 • 10:30 a.m. • Fairfield - Mesa

Clyde will lead a group discussion on the importance of lift system upgrades on how to justify the need and plan for the implementation of the upgrades. This plan can support the departments and company's customer satisfaction results.

M-9 Old School Machinery Alignment 3-Hour Class

Brian Reihle • Vail Mountain

Tuesday - May 7, 2019 • 1:00 p.m. • Parking Classroom

Panel with Joe Klosterman, Beaver Creek Lift Maintenance

This class is by Mechanics for Mechanics, this is a hands-on open discussion class, and will be using an alignment simulator for instruction. Topics include; Types and causes of misalignment, alignment methods, alignment preparation, soft foot. Moving the machine, simple alignment techniques, precision alignment. Please bring your phone with a calculator. Limited to 18 participants. Sign up during check in.

M-10 Old School Cardan Shaft Alignment 3-Hour Class

Brian Reihle • Vail Mountain

Wednesday - May 8, 2019 • 1:30 p.m. • Parking Classroom

Panel with Ryan Portz, Vail Resorts Lift Mechanic.

This class is by Mechanics for Mechanics, This is a hands-on open discussion class, taught with an alignment simulator. Topics include; Cardan shaft overview, universal joint terms and operation, soft foot types and correction methods. Types and causes of misalignment in Cardan shafts, alignment methods for Cardan shafts, alignment preparation. Moving the machine to correct alignment, simple alignment techniques, and Cardan shaft operating angles and velocities. Limited to 18 participants, sign up during check-in.

M-11 Fastener Basics

Dane Janak • Fastenal

Tuesday - May 7, 2019 • 3:00 p.m. • Hampton - Grand Room

The class will discuss the basics of fasteners: How they are made, how to correctly identify and measure, why fasteners fail, and how to properly use.

M-12 Hydraulic Safety Training

Rodman Flint • Enerpac

Tuesday - May 7, 2019 • 3:00 p.m. • Escalante Creek

A Safety Seminar is a 1-1/2-hour semi-hands-on high-pressure hydraulic safety training class designed to bring awareness to common safety hazards of both reportable/non-reportable (OSHA & MSHA) conditions and product seen in the high force tools industry. The seminar discusses safety concerns when using 10,000psi equipment. Class participation is required in identifying and determining common misuse and proper set up. We also conduct a brief question & answer session at the end providing feedback to participants on current issues they may be experiencing. Maintenance, welding, electrical, metal working personnel will use our products. No tools are required to attend.

M-13 Gearbox Fundamentals, Inspection & Repair

Dereck Yatzook • Artec Machine Systems

Tuesday - May 7, 2019 • 10:30 a.m. • Fairfield - Mesa

Gearbox Fundamentals & Applications, Modes of Failures and preventative maintenance tips, gearbox inspection techniques, repair procedures.

M-14 Belt Drive Optimization and Maintenance

Ben Huntoon • Gates Corporation

Tuesday - May 7, 2019 • 10:30 a.m. • Parking Garage

Maximize the performance and life of belt drives. Learn about the different types of belts and their application. Learn the best ways to inspect, install, and maintain belt drives. This training is for anyone that works on belt drives.

M-15 Introduction to Brakes - 101

Michael Lane • National Ski Areas Association

Tuesday - May 7, 2019 • 3:00 p.m. • Springhill - Main St

This class will look at the different types of brakes, their physical characteristics, components, and what the B77.1 standard requires and why. The session then applies the different brake types used on ropeways and attempts to give an overview to help you understand their operation, problems, rotation inertia (energy), brake curves as encyclopedias and a few misnomer's as well.

M-18 Hydraulic Controls Brake Tension 3-Hour Class

William Hartman • Skytrac Inc.

Thursday - May 9, 2019 • 8:30 a.m. • Plateau Creek

Training on hydraulic components, assemblies, diagrams, troubleshooting and theories for brake and tension systems.

M-19 Bearings Hands-on Workshops in Failure Analysis & Part Identification - From the Manufacturer

Michael Wernke • Schaeffler Group - FAG, INA, Barden

Wednesday - May 8, 2019 • 1:30 p.m. • Springhill - Main St

Michael Wernke, Jacob Shafter, Shawn Dunn, Description: Have you been wondering why that one bearing keeps failing or just doesn't last as long as the rest? Nomenclature got you down? What in the world is this bearing? This interactive, hands-on focused class is designed to help you understand and identify bearing parts, part numbers and manufacture nomenclature. Even when there isn't a visible part number! We will also cover the fundamentals of long bearing life, failure identification and analysis. Class will consist of short instructional presentations with the majority of your time spent working with actual bearings and real world failure examples. Bring your bearing questions, problems and examples (bearings, pictures, stories) to class to include in the discussion.

M-20 Concerned About Aging Lifts and Other Mechanical Equipment?

Neville Sachs, PE, PLLC • Neville W. Sachs, P.E. PLLC

Tuesday - May 7, 2019 • 1:00 p.m. • County/Elections Rm

Many of our ski lifts are over thirty years old and much of our other machinery is aging. This presentation reviews the common causes of mechanical deterioration, including corrosion, what we can do to prevent further degradation, and some steps we can take to improve their mechanical reliability. There will be comments on the effect of corrosion and also data on the safety and planning benefits of predictive maintenance. Level II

M-21 Failure Analysis of Ski Area Mechanical Equipment With Emphasis on Shafts and Fasteners

Neville Sachs, PE, PLLC • Neville W. Sachs, P.E. PLLC

Tuesday - May 7, 2019 • 3:00 p.m. • County/Elections Rm

After a brief review of the difference between physical, human, and latent roots (causes) of failures, the class goes into detail about how to diagnose the physical causes and includes a number of hands on examples. Much of the class is a review of a selection of ski area failures and how their diagnosis can lead to preventing additional equipment problems. Attendees are encouraged to bring failed parts to the class for hands-on analysis.

M-22 Ski Area Lubrication - Where We've Been and Where Should We Be Going.

Neville Sachs, PE, PLLC • Neville W. Sachs, P.E. PLLC

Wednesday - May 8, 2019 • 3:15 p.m. • Escalante Creek

The class will show how lubrication works, starting with base oils and additives. Then describe the lubrication of different types of bearings and sliding surfaces and the effect of contamination. After reviewing those basics, it will cover the changes in lubricants including the various synthetic oils and the grease thickeners. The last portion of the program will discuss setting up a lubrication program with suggested relubrication periods and storage practices.

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M-26 Splice Rigging Calculations, Know your load! 3-Hour Class

Logan Still • Vail Mountain

Thursday - May 9, 2019 • 8:30 a.m. • Hampton - Grand Room

We look at how to calculate the tension on a haul rope at the location where you plan to install the rigging for a splice or project. Both hydraulic and counterweight systems will be reviewed and how to determine the initial tension in the rope plus the additional vertical component/calculated rope weight and chairs for the location along the lift line. We will also go through reeving configurations and load calculations for the mechanical advantage they provide. At the end you should be able to calculate the load at every part of your rig. Please bring your cell phone with a calculator.

M-27 Manual Hoists and Cranes - "What's the Deal?"

Ken Gubarich • Denver Wire Rope

Wednesday - May 8, 2019 • 10:30 a.m. • Escalante Creek

We will demonstrate how we inspect, repair & rebuild lever chain hoists. We will actually be taking a lever hoist apart to inspect the parts, replace as necessary & re-assemble.

M-28 Design and Construction of Summer Operation Loading and Unloading Decks

Harlan Bryant • Dendrite Engineering, Inc.

Thursday - May 9, 2019 • 10:30 a.m. • Spring Hill - Monument

The State of Colorado and the Operations Subcommittee for ANSI B77.1 have asked Harlan Bryant to develop recommendations for the design and construction of decks at the load and unload of lifts operating in the summer time. This class will review the preliminary recommendations that I have developed, and the background for these recommendations. Come join the discussion and give us your input on the proposed new standard language.

Operational Classes:

OP-1 ANSI B77.1-2017; Using the Updated Standard

Paul Rauschke • The Ursus Group

Thursday - May 9, 2019 • 8:30 a.m. • Escalante Creek

We will focus on the 2017 B77.1 standard as it applies to the operational responsibilities of your supervisors, operators and attendants. You and your staff need to navigate, comprehend and apply the fundamental language of the 2017 standard for operations and record keeping. Alignment of the language of your ski areas documents incl. titles, job descriptions and responsibilities will be addressed. Participants are encouraged to submit "blind" copies of their documentation for use in class.

OP-2 Summer Operations Round Table

Kyle Gornell • Steamboat Ski & Resort Corporation

Thursday - May 9, 2019 • 8:30 a.m. • Kannah Creek

A round table discussion about summer operations. This class will be a discussion about the challenges of summer.

OP-3 Guest Services: Training and Techniques

Kyle Gornell • Steamboat Ski & Resort Corporation

Thursday - May 9, 2019 • 10:30 a.m. • Kannah Creek

This class will be a hands-on approach of different techniques to train employees on how to provide excellent guest service. The class will participate as a group to go over training techniques, exercises, and activities.

OP-5 Employee Wellness and Its Effects on Performance and Retention

Darren Northwood • Park City Mountain Resort

Wednesday - May 8, 2019 • 1:30 p.m. • County/Elections Rm

Tips and tools to make you the most popular manager at the mountain.

OP-6 Lift Operations Training and Documentation

Taylor Hutchison • Arapaho Basin Ski Area

Thursday - May 9, 2019 • 10:30 a.m. • Gunnison River Ballroom

A highlight of Arapahoe Basin's Lift Operations training program (onboarding/ on the job), followed by a roundtable discussion focusing on what other Ski Areas are doing/ not doing.

OP-7 OSHA and How it Relates to the Workplace

Ashley Ryland • Taos Ski Valley, Inc.

Wednesday - May 8, 2019 • 10:30 a.m. • Plateau Creek

Be an OSHA Champion. Make OSHA less daunting with our 2018 updates, tips for surviving an inspection and great ideas for setting your teams up for success! Encouraged to submit "blind" copies of their documentation for use in class.

OP-10 Lift Operations Roundtable

Jeff Marzka • Park City Mountain Resort

Mike Gierach • Crested Buute Mountain Resort

Tuesday - May 7, 2019 • 3:00 p.m. • Kannah Creek

Wrap up the first day of the RMLA Conference by attending this class! This session will serve as a sounding board for Lift Operations Supervisors and Managers to get answers to those troubling questions that have arisen over the past season. Bring your questions and problems and we can discuss potential solutions that other areas have tried. Have an idea for a class that you would like to see at a future Conference? This is a great opportunity to present your idea and get input from others in the Industry. Everyone is encouraged to attend! This session will be followed by an informal meet & greet in the Whitewater Room and Convention Center Lobby.

OP-11 Ramp Design and Operator Ownership of the Lift System

Clyde Wiessner

Wednesday - May 8, 2019 • 3:15 p.m. • County/Elections Rm

Clyde will lead a group discussion on the importance of ramp design to the operation as related to guest experience and how lift operators that take ownership of the lift systems can support the departments guest satisfaction goals.

OP-12 Employment Law

Jessica Caskey • Taos Ski Valley, Inc.

Wednesday - May 8, 2019 • 10:30 a.m. • Kannah Creek

You don't have to be a lawyer to know how to stay out of court. Join me for Employment Law Basics and learn the "what not to dos" of being a manager!

OP-13 Leadership for Lift Operations

Roxanne Hoover • Granby Ranch

Tuesday - May 7, 2019 • 10:30 a.m. • Whitewater Creek

Explore your role as a leader by transforming from manager to coach. In this session you will learn more your leadership style, understanding key leadership skills and functions, and discovering skills and characteristics of an effective coach as a leader.

Safety Related Classes:

SF-1 Safety Fundamentals

Anthony Rice • Fastenal Company

Wednesday - May 8, 2019 • 10:30 a.m. • Whitewater Creek

The fundamentals of safety will be discussed. What you need to know when working in a work carrier.

SF-2 Optimizing Your Employee Safety Culture to Improve Performance and Guest Satisfaction

Greg Weatherby • HPI Safety Systems, LLC.

Wednesday - May 8, 2019 • 1:30 p.m. • Fairfield - Breakfast Rm

As resort recreational opportunities expand into year-round operations, employee and guest safety is quickly becoming a key factor in the bottom line of our industry. A strong safety culture makes a critical contribution to how a resort is perceived by both workers and those who choose to spend their time and money with us. This session is designed to acquaint attendees with what a successful safety culture looks like, how to achieve it, and how to measure the maturity of your own program. Join us for this highly interactive session and leave with tools that you can use immediately to improve your bottom line.

SF-3 New Innovations in Fall Protection: How to Rescue a Worker, OSHA Ladder Safety Standard & Inspector Course 3-Hour Class

Matt Schmidt • Shur Sales & Marketing, Inc.

Tuesday - May 7, 2019 • 1:00 p.m. • Fairfield - Breakfast Rm

This is an advanced fall protection class w/ focus on how to rescue a worker along with an equipment inspector class.

SF-4 Leadership in Safety

Darren Northwood • Park City Mountain Resort

Thursday - May 9, 2019 • 8:30 a.m. • County/Elections Rm

This discussion will include leadership lessons, mitigating risks, overcoming obstacles, and improving on wins and opportunities.

Part - 1 will focus on creating a safety culture. This starts with self-awareness and how to set the tone for your team. Then we will discuss how to analyze your team and find the areas where change and influence can occur.

Part - 2 will be a leadership discussion with safety being the focus. It will break down how to strategically assess risks and mitigate them, how your team's focus can lead to complacency, and how to manage safety policies effectively. It will end with a discussion on evaluating performance, and utilizing that data to make improvements.

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SF-6 3hr - Basic Avalanche Safety for Lift Maintenance Personnel

Halsted Morris • American Avalanche Association

Tuesday - May 7, 2019 • 1:00 p.m. • Whitewater Creek

This classroom avalanche course is for both veterans and new ski area personnel that are exposed to avalanche dangers. The course will cover, how and why avalanches happen, what you can do to recognize the clues and signs that the avalanche hazard is increasing, what to do to avoid being caught in one, and what to do if you or a colleague is caught in an avalanche. All of this information applies to both on the job and recreational activities where ever you may be skiing or boarding. Getting basic avalanche education is the key to not becoming a victim.

SF-8 Conveyor Round Table

Scott Uren • Arapaho Basin

Wednesday - May 8, 2019 • 1:30 p.m. • Whitewater Creek

Scott Uren, Cindy Olson, Dave Kelley, Audrey Paulus, Greg Baldacci, Peter Kavanagh Conveyors are a critical tool for our business. It is also a tool that doesn't always garner the respect it deserves. This round table will allow us to discuss the issues that affect both operations and maintenance teams in regards to how we operate and maintain conveyors. This is a closed session, only ski industry personnel and vendors are welcome.

SF-9 ARC Fault Current Awareness- NFPA 70E

Bruce Wyman • S-K-I Electric

Thursday - May 9, 2019 • 10:30 a.m. • Escalante Creek

Basic 1-1/2 hr. Electrical Safety for Ski Area Maintenance Staff. The objective of this session is to develop an awareness of electrical safety and provide a general treatment of the nature of electricity: the risks, hazards and solutions for a safe work environment.

SF-10 OSHA Compliant? Basic, Common & Often Overlooked Items

Herb Gibson • Department of Labor - OSHA

Tuesday - May 7, 2019 • 1:00 p.m. • Fairfield - Mesa

This presentation will be a brief OSHA update focused on the ski industry. Recent OSHA standards such as record keeping and walking/working surfaces will be summarized. Additionally, Herb will cover frequently observed hazards at ski areas and suggestions on how to find and fix hazards through a safety and health program.

SF-12 Work Carrier Safety

Troy Frutiger • Crested Butte Mountain Resort

Tuesday - May 7, 2019 • 10:30 a.m. • Plateau Creek

You load them up and climb on, but have you done your homework? How much can they carry, have you done the grip maintenance, communication protocols, lockout-Tagout? This open discussion will start with these items and end with a discussion of the changes for Work Carriers in the new ANSI B77.1-2017 Standard.

Supervisory Classes:

SV-1 Small Ski Area Roundtable

Andy Birch • Ski Granby Ranch

Wednesday - May 8, 2019 • 3:15 p.m. • Kannah Creek

This class is designed as an outlet for small ski areas to bring forth problems or issues that affect smaller ski areas in the realm of Operations.

SV-7 Recent Lift-Related Litigation & the Risk Management Take-Aways

David Byrd • National Ski Areas Association

Tuesday - May 8, 2019 • 10:30 a.m. • Hampton - Grand Room

Claims and lawsuits related to chairlift operations and guest injuries are common and can often be challenging to defend eating into your insurance deductible. With an emphasis on smart prevention instead of post-incident reactions, this session will analyze some recent chairlift related claims from around the industry in the U.S. and Canada, and will examine some of the alleged errors and negligence. More importantly, understanding these incidents will help ski areas learn to adopt better practices and policies to implement, better training, and improve their overall lift operations—as well as the importance of cross-training within and between other resort departments like ski school, race teams and special events, and mountain operations.

SV-8 Mental Health in the Workplace - 101

Ashley Ryland • Taos Ski Valley, Inc.

Tuesday - May 7, 2019 • 10:30 a.m. • Spring Hill - Monument

Mental Health may seem like a complicated subject but it doesn't have to be! Let's break it down and teach you tips and tools you can take back to your teams to be able to recognize and support those going through difficult times.

SV-9 Courageous Conversations

Jessica Caskey • Taos Ski Valley, Inc.

Wednesday - May 8, 2019 • 3:15 p.m. • Hampton - Grand Room

Depending on your role in a situation, you may need to muster up the courage to do the speaking, or you may need to humble yourself to do the listening. As Winston Churchill said "Courage is what it takes to stand up and speak; courage is also what it takes to sit down and listen." - let's work on both, together.

SV-10 Motivating Staff and Finding Purpose

Jessica Caskey • Taos Ski Valley, Inc.

Wednesday - May 8, 2019 • 1:30 p.m. • Hampton - Grand Room

We're all human...so why don't we act like it in the workplace? Learn how to bring your whole self to work and navigate the rough waters of emotions.

SV-11 Communicate - It's the most important thing you will do all day.

Roxanne Hoover • Granby Ranch

Tuesday - May 7, 2019 • 1:00 p.m. • Escalante Creek

As managers and supervisors, you count on motivated, highly engaged staff to deliver high levels of performance. But let's face it, that is possibly one of the toughest parts about this gig! Together, let's explore models and ideas that will help make jobs more meaningful and rewarding and create more positive outcomes for your teams.

SV-12 Investigating and Documenting Lift Incidents

Mary Bozack • MountainGuard Insurance

Thursday - May 9, 2019 • 10:30 a.m. • Fairfield - Mesa

This class will discuss lift incidents and review forms and documentation. We will look at photos, diagrams, and other pre- and post-loss documents. The Class will interview the lift attendant and witnesses to learn "the whole story".

NOTICE:
ABSOLUTELY NO RECORDING
ALLOWED AT RMLA SEMINAR!

RMLA seeks to foster an open and candid exchange of ideas between ski area personnel with its educational seminars.

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