



25<sup>th</sup> Annual Conference & Trade Show  
Two Rivers Convention Center  
Grand Junction, Colorado  
May 17-20, 2010

## Class Descriptions

### Monday, May 17

12:45 – 4:00 pm

#### **Introduction to Diagnostics & Diagnostic Systems for Diesel Light Trucks**

**DSI Shop**

**Mike Ruffing, Diesel Services, Inc.**

A brief discussion of electronic high pressure common rail fuel systems, exhaust after treatment systems, and service issues for current diesel engines offered by Ford, Dodge/Cummins, and GM, followed by in shop, hands-on operation of the various diagnostic tools allowing participants to retrieve diagnostic trouble codes and run interactive diagnostic procedures. **Class limited to 15 attendees total.**

#### **Caterpillar Engines**

**Prinoth Shop**

**Prinoth Staff**

The C9 and C13 engines used in Prinoth groomers are the focus of this class. Updates, troubleshooting, oil drain intervals and maintenance will be discussed.

#### **Grooming Efficiencies**

**Whitewater**

**Prinoth Staff**

Prinoth invites managers and grooming personnel to an in-depth presentation and discussion on maximizing your grooming operation dollar.

#### **PistenBully 200, 300, 400 & 600 Hydrostatic Drive**

**Kannah**

**Kässbohrer Staff**

This class will cover the theory, maintenance and troubleshooting techniques for the hydrostatic drive on the PB200, 300, 400, and 600 models.

12:45 – 2:15 pm

#### **Managing Conflict in Your Workplace**

**Plateau**

**Laura L. Ciampa, Beaver Creek Resort**

During this session Laura will offer you insight on how you approach conflict and how to adjust your style to best meet the communication preferences of those you are working with.

#### **Small Engine Repair & Maintenance**

**Escalante**

**Byron Radcliff and Russ West, Steamboat Ski & Resort Corp.**

This class will conduct a hands-on tear down of a Honda engine and carburetor and a Mikuni carburetor rebuild. Detailed handouts on the electrical system and spark plugs will be provided. You're sure to have all your questions regarding small engine repair and maintenance answered in this open discussion forum. **Class limited to 15 attendees total.** Session repeated on Wednesday, May 19, 10:15 – 11:45 am

2:30 – 4:00 pm

#### **Motivating Across Generations**

**Plateau**

**Laura L. Ciampa, Beaver Creek Resort**

Laura will present data on the generational difference in what keeps employees inspired and motivated. Learn how to identify the unique motivational needs of your team members and how to keep them giving their best throughout the season.

#### **Hydraulics Troubleshooting**

**Mesa**

**Joe Lewis, Horizon Hydraulics, Inc.**

This class will take an in-depth look into the world of hydraulic troubleshooting. We will discuss the types of hydraulic circuits and how to troubleshoot each type. Participants will learn to read actual hydraulic schematics on snowcats and will use them to troubleshoot the real problems that can occur out in the field. Session repeated, Tuesday, May 18, 8:30 – 10:00 am.

## Tuesday, May 18

8:30 – 11:45 am

**Rexroth Hydrostatics**  
**Prinoth Staff**

A hands-on class pertaining to troubleshooting and maintenance of the Rexroth hydrostatic drive used on the Prinoth Bison.

**Prinoth Shop**

**Prinoth Tracks, Parts & Warranty Procedures**  
**Prinoth Staff**

A discussion of frequently overlooked items that have a great effect on the budget and vehicle utilization.

**Whitewater**

8:30 – 10:00 am

**PistenBully Edge, 200 & 300 Drive & Tiller Electronics**  
**Kässbohrer Staff**

This class will cover the theory, maintenance, and troubleshooting techniques for the MOOG digital drive system and drive card.

**Kannah**

**Vehicle Fluid Maintenance: The Good, The Bad, and The Urea?**

**Eric Brace, Manny Campo, Thomas Mehl, and Thomas Moreland, ExxonMobil Lubricants & Specialties**

Vehicles have several different fluids which require maintenance. Some involve more maintenance while others can be left for longer periods. There are many choices and options for fluids whether it's for the engine, hydraulics, differentials, bearing, etc. A greater understanding in the area will benefit any vehicle operator, owner, or mechanic.

**Dominguez**

**Filtration Technology**

**Eric Larsen, NAPA Filters**

During this session Eric will answer your questions regarding filtration technology. Participants will look at the construction of oil, air and fuel filters and how that construction affects filtration.

**Plateau**

**Permatex: New Brands, New Products, New Solutions**

**Sam Gentile & Pam Pursell; ITW/Permatex**

As chemical technology has changed in fuel and lubrication, new technology has evolved to address the specific problems presented by these improved fluids. Session repeated, Tuesday, May 18, 3:45 – 5:15 pm.

**Escalante**

**Safe Hydraulics**

**Tim Deans, Gates Corporation**

During this session, Tim will cover how to work around high pressure hydraulic systems safely including how to diagnose leaks, periodic inspections, troubleshooting, hose selection, coupling selection and proper hose assembly.

**Adobe**

**Hydraulics Troubleshooting**

**Joe Lewis, Horizon Hydraulics, Inc.**

This class will take an in-depth look into the world of hydraulic troubleshooting. We will discuss the types of hydraulic circuits and how to troubleshoot each type. Participants will learn to read actual hydraulic schematics on snowcats and will use them to troubleshoot the real problems that can occur out in the field. Session repeated, Monday, May 17, 2:30 – 4:00 pm.

**Mesa**

10:15 – 11:45 am

**PistenBully 400 & 600 PSX Drive & Tiller Electronics**  
**Kässbohrer Staff**

This class will cover the theory, maintenance, and troubleshooting techniques for the drive and tiller electronics on the PB400 and 600 models.

**Kannah**

**Inspecting Your LIF-TRACK Machines**

**Gary Pavlick, LIF-TRACK/Lif-Tech Equipment**

While there is currently no OSHA requirement that your lifts be inspected annually, it's undeniably a good idea. In this class you will learn how to self-inspect your LIF-TRACK machines. We will follow the guidelines offered by the Automotive Lift Institute (ALI) and provide you with the inspection forms that they publish. Although this is not a certification class, those that attend will be qualified to inspect your equipment, document your findings and be able to save the money it would cost to retain an inspection company.

**Dominguez**

**OSHA's Knocking: What Happens When You Open the Door?**

**Keith Rice & Ellen Sarvay, Pinnacol Assurance**

OSHA has added 100 inspectors to their force for 2010 and they have also authorized an increase in fines for citations. Do you know what to do if one of them shows up at your door? What are their top citations in the vehicle maintenance area? Our discussion will include how to prepare for an OSHA inspection, what to do when they arrive onsite, and what to do after they're gone. We will also look at some recent OSHA inspections in the resort industry and some lessons learned from those inspections.

**Plateau**

**Selecting the Right Grease for Your Equipment Protection**

**Ram Ramanathan, Chemsearch**

Students will learn the basics of lubrication as well as the history of grease. Ram will then cover problems affecting grease, types, compatibility and proper greasing procedures. Session repeated, Wednesday, May 19, 10:15 – 11:45 am.

**Escalante**

**North American/European Thread Identification**

**Tim Deans, Gates Corporation**

Thread identification is a key part of building and installing the proper hydraulic hose assembly right the first time. During this session, Tim will show you how to tell the difference between DIN (Deutch Industry Norm) heavy, DIN light, etc. that may be encountered on various machines. He'll also cover sealing types, o-rings and more.

**Adobe**

## Tuesday, May 18 (continued)

2:00 – 5:15 pm

**Flame Bending Workshop – Hands-On**  
**Darrel McKay, Grand Valley Forge**

Attendees will learn proper equipment use, set-up safety and application of oxy-fuel gas bending, cutting and welding. Informative classroom instruction and hands-on demonstration. You must sign up in advance. **Class limited to 10 attendees total.**

UTEC

**Bison & BR350 Troubleshooting**  
**Prinoth Staff**

In an effort to address the specific needs of their customers, Prinoth experts will collectively address items that present challenges during the course of the season. Bring your questions and concerns and we will work together as a group to give you the information you need.

Prinoth Shop

**TTC Electronics**  
**Prinoth Staff**

An introductory class on the new electronics used on the Beast and Bison vehicles.

Whitewater

**Truck Air Brake Systems Clinic**  
**Gary Frase, NAPA-Heavy Duty Division**

This clinic covers air brake system fundamentals and operation from the compressor to the friction material, system troubleshooting, D.O.T.121 requirements including necessary documentation and wallet card necessary to inspect, maintain and repair air brake systems. The clinic includes a working brake system mounted on a presentation board for demonstrations.

Plateau

2:00 – 3:30 pm

**PistenBully 200, 300 & 400 Auxiliary Hydraulics**  
**Kässbohrer Staff**

This class will cover the theory, maintenance, and troubleshooting techniques for the auxiliary hydraulic systems on the PB200, 300, and 400 models.

Kannah

**The Chemistry in the Can**  
**Trace Whitehall, Whitehall's Alpine Distributing**

BG professionals will demonstrate chemical components of several products in the BG line. This class is also known as "The BG Burn & Learn."

Dominguez

**Zen and the Art of Bearing Maintenance**  
**Bob Twiddy, Timken Corporation**

This class will begin with a general introduction of the various bearing types and the typical applications. Bob will then focus on the practical handling and installation of tapered roller bearings, including shaft and housing fits, bearing clearance settings and lubrication. The session will finish with a segment on bearing damage analysis and failure prevention.

Escalante

**Job Hazard Analysis for Vehicle Maintenance**  
**Steve Howard, Aspen Skiing Company**

Class description to come.

Adobe

3:45 – 5:15 pm

**PistenBully 600 Auxiliary Hydraulics**  
**Kässbohrer Staff**

This class will cover the theory, maintenance, and troubleshooting techniques for the auxiliary hydraulic systems on the PB600.

Kannah

**Oil Analysis: What You Need to Know**  
**Mike Belluomo, BG Products**

This session will cover the advantages and disadvantages of extended drain interval oils. Students will also learn the importance of oil analysis to get optimum longevity out of lubricated components.

Dominguez

**Permatex: New Brands, New Products, New Solutions**  
**Sam Gentile & Pam Pursell; ITW/Permatex**

As chemical technology has changed in fuel and lubrication, new technology has evolved to address the specific problems presented by these improved fluids. Session repeated, Tuesday, May 18, 8:30 – 10:00 am.

Escalante

**OK, Now What? Post Accident Procedures**  
**Steve Howard, Aspen Skiing Company**

Class description to come.

Adobe

## Wednesday, May 19

8:30 – 11:45 am

**General Welding Workshop - Hands-On**  
**Mike Matkus & Calvin Harmann, Breckenridge Ski Resort**

This class is designed to be a help to any level of welding experience. A refresher class covering oxy/acetylene use and safety hands-on wire feed and electrode welding. Bring your problems, questions, helmet, jacket, gloves, eye protection, coveralls and leather shoes. You must sign up in advance. **Class limited to 10 attendees total.** Session repeated, Tuesday, May 18, 8:30 – 11:45 am.

Leitner-Poma of America Shop

## Wednesday, May 19 (continued)

8:30 – 11:45 am

**Sherpa Winch**  
**Prinoth Staff**

This class will cover the operation, troubleshooting and maintenance of the Sherpa winch.

**Prinoth Shop**

**Sauer Danfoss Hydraulics & Hydrostatics**  
**Prinoth & Berendsen Fluid Power Staff**

Berendsen Fluid Power and Prinoth representatives join together to discuss the operation and maintenance of the Sauer Danfoss systems used in the Prinoth BR350 drive train.

**Whitewater**

8:30 – 10:00 am

**PistenBully 400 & 600 Terminal Screen & Diagnostics**  
**Alex Dehm, Kässbohrer All Terrain Vehicles**

This class will cover the on board diagnostics and terminal screens on the PB400 and 600 models.

**Kannah**

**Safe Rigging: Vehicle Towing**  
**Darrel McKay, Delta Rigging & Tools**

Students will learn proper rigging techniques to safely tow snowcats and other stranded vehicles.

**Dominguez**

**Snowmobile Safety: Too Big to Ignore**

**Facilitators – Dave Crisler, Steamboat Ski & Resort Corp.; and Ron Richards, Winter Park Ski Resort**

A roundtable discussion on snowmobile safety policies at ski areas and how to improve yours.

**Plateau**

**Petroleum Storage Tanks Regulatory Update**  
**Blaine Garwood and Eric Hick, CGRS, Inc.**

State and federal rules and regulations have recently been amended or are in the process of being amended for all tanks storing petroleum products. This class will provide an update on the rule changes including Operator A, B, and C requirements, monthly and annual inspections, annual testing requirements and SPCC plans.

**Adobe**

10:15 – 11:45 am

**PistenBully 300, 400 & 600 Four Ton Winch**  
**Kässbohrer Staff**

This class will cover the basic theory, maintenance, and troubleshooting techniques of the hydraulic and electrical system for the 4 ton winch.

**Kannah**

**Small Engine Repair & Maintenance**

**Byron Radcliff and Russ West, Steamboat Ski & Resort Corp.**

This class will conduct a hands-on tear down of a Honda engine and carburetor and a Mikuni carburetor rebuild. Detailed handouts on the electrical system and spark plugs will be provided. You're sure to have all your questions regarding small engine repair and maintenance answered in this open discussion forum. **Class limited to 15 attendees total.** Session repeated on Monday, May 17, 12:45 – 2:15 pm.

**Dominguez**

**Cats, Sleds & Sustainability: Stories from the Frontlines**  
**Matthew Hamilton, Aspen Skiing Company**

Aspen Skiing Company is known internationally as one of the leading sustainable businesses. Since 1994 the company has worked to establish industry leading operations that reduce environmental impacts, save energy and contribute to the long term well being of the company's 3,800 employees. This discussion will explore the successes, but also the failures in ASC's work to operate sustainably. Integral to ASC's efforts are those of its vehicle shop employees and efforts in these shops will be highlighted. Through an interactive discussion you will leave the room with a few new ideas to bring back to your shop.

**Plateau**

**Selecting the Right Grease for Your Equipment Protection**  
**Ram Ramanathan, Chemsearch**

Students will learn the basics of lubrication as well as the history of grease. Ram will then cover problems affecting grease, types, compatibility and proper greasing procedures. Session repeated, Tuesday, May 18, 10:15 – 11:45 am.

**Adobe**

## Thursday, May 20

8:30 am – 3:30 pm

**Tig Welding Workshop – Hands-On**

**Mike Matkus and Calvin Harmann, Breckenridge Ski Resort**

This class will cover set up, preparation, and welding with the T.I.G. process on aluminum. Bring your helmet, jacket, gloves, eye protection, coveralls, and leather shoes. You must sign up in advance and a boxed lunch will be provided. **Class limited to 10 attendees total and a no-show fee of \$75 per person will be assessed to those who neglect to attend.**

**UTEC**

9:00 – 11:00 am

**Prinoth Roundtable**  
**Prinoth Staff**

Come share your thoughts with Prinoth sales, service and engineering departments for improvements to existing product line as well as ideas for the future.

**Prinoth Shop**

**PistenBully 400 & 600 Hands-On & Roundtable**  
**Kässbohrer Staff**

This class will provide attendees with actual hands-on time with the PB400 and 600. Additionally, attendees will be able to get their questions answered on all related items they may not have been covered or answered during the course of the week. This is a round table discussion, but most of it will be conducted right at the machine and the actual functions will be adjusted and set to specifications.

**Kässbohrer Shop**