

# SnoTechnica 2024

Presented by Precision **Auto**Research  
and M&M Sports Center/FormulaX-1

**Make Your Sled Go Even Faster!**

Wednesday, January 10, 2024

Two very informative technical sessions, jointly presented by renowned race engineers, Mel Winnie and Dr. David Redszus, are guaranteed to help you quickly learn how to go faster. SnoTechnica 2024 will cover *Data Logging* and *Clutch Setup and Tuning*. Even beginners will learn to use their data loggers as performance enhancement tools.



Data for Race Sleds



## 8am – Basic Training

### Part I -- SnoPro / AIM Data

This session will orient new and established users on setup and basic use of their data systems, and how to navigate the analysis software. While oriented towards early adopters, any who are data-curious will find this interesting. Bring any and all questions!

### Part II -- Clutch Setup 101

This session covers clutch component functions, system operation in theory and practice, the four dimensions of alignment, and basic setup targets.

You should know this stuff. If not, get it here!

## 1pm – Advanced Training

### Part I -- Using Data Analysis to Win

Intensely focused on interpreting data for sleds. Covers analysis tricks and how to interpret advanced sensors. Participants in this session have typically already used data, but are looking to take the next step towards using their systems like a pro.

### Part II -- CVT Advanced Tips and Tricks

This session unlocks many of the mysteries of clutch tuning. Covers the math behind clutch performance, non-intuitive gearing, belt failures, slippage, temperatures, and more.

Sessions held at:

### SnoBoss Groomers

7480 State Hwy 70E

St. Germain, WI 54558

(262) 210-0428

(Across from Elmer's Fun Park)

### To register call;

Dave at (630) 926-6695 or

Mel at (231) 369-4300

Cost is only \$95, including lunch.

**These will be intense, informative sessions; not sales promos! Bring your laptop (and calculator), an open mind, and all your questions. Informal question/answer session will be available after the seminars to discuss your specific applications.**

**SnoTechnica** has been created to help snowmobile racers learn more about the operation of their sled. We intend to give racers an opportunity to meet some of the engineering insiders in the industry; to get the "straight-scoop" on principles not readily available to the public. Here are our speakers for this session:



### David M. Redszus, Ph.D.

Dr. Redszus is President and founder of Precision AutoResearch, provider of research and engineering services for the motorsports industry. As engineer, coach, and driver, he has experience with a broad spectrum of sanctioning bodies, vehicle types, manufacturers & suppliers, advanced driving techniques, and racers. He has worked with numerous professional, semi-pro, and amateur racing teams, in almost all motorsport arenas.

Over 20 years ago, he developed the **SnoPro** line of data logging equipment, and helped countless sled racers win championships in Drag, Oval, Sno-X, Enduro, and Cross-country. He's particularly interested in turning raw data into useful information for any level of racer.

Outside of racing, David is an expert in large-scale systems analysis and non-linear management dynamics. He has consulted for the US military and private sectors, including most of the major automakers in the United States and abroad. He also serves as design event captain for *Formula SAE*, an international collegiate competition for the Society of Automotive Engineers.



### Mel Winnie

"Magic Mel" is owner of M&M Sports Center. He has been tuning and building snowmobile engines and clutches for 46 years. He has helped teams rack up many wins, national championships, two endurance world records (including one 24 hour record for distance this past spring) and is a wealth of information on snowmobile performance. He is also a consultant for a Formula SAE university build team and is the nut behind the legendary **Formula X-1** product line.

Mel is a very analytical person who takes a scientific approach to all components of snowmobile performance. His insight into driveline and clutching is brilliant, as he helps clarify what is critical for your performance. His selfless approach makes him a real asset to your team!