

# SnoTechnica 2023

**Make Your Sled Go Faster!**

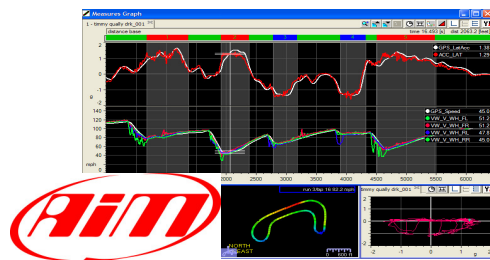
Hosted by World Snowmobile HQ  
Presented by Precision **Auto**Research  
and M&M Sports Center/FormulaX-1

Wednesday, Jan 11<sup>th</sup> AND Jan 18<sup>th</sup> 2023

Come join us for two very informative sessions, jointly presented by renowned race engineers, Mel Winnie and Dr. David Redszus, are guaranteed to help you learn quickly and go faster. This year SnoTechnica covers **Data Logging** and **Clutch Setup and Tuning**. We are pleased to hold these identical session on two consecutive Wednesdays at the legendary World Snowmobile Headquarters in Eagle River!



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 4 dimensions of alignment, and basic setup targets.

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

## 1pm – Advanced Training

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

Intense focus 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.

Held at: World Snowmobile Headquarters (Museum)  
1521 N. Railroad St.  
Eagle River, WI 54521

**Please Pre-register!**  
(see reverse side)

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

# SnoTechnica 2023

Wednesday, January 11, 2023

Wednesday, January 18, 2023

- **Morning** session begins promptly at 8am and runs until noon.
- **Afternoon** session begins promptly at 1pm and run until 6pm.
- Refreshments will be available before and during seminars. Lunch provided.
- Bring your laptop and power supply. Free analysis and predictive modeling software will be provided.
- Space is limited. Please Pre-Register! Registration admits you for entire day (both sessions).
- Total cost of the seminars is \$95 (full day)

- **Seminars held at:**  
World Snowmobile Headquarters  
(Museum Facility)  
1521 N. Railroad St.  
Eagle River, WI 54521  
(715) 479-2186  
Learn more about this great place just north of the Derby Complex  
<https://www.worldsnowmobilehq.com/>
- **Hotel room blocks** in Eagle River have been reserved (for nights of Jan 10,11,17,18) for \$129/night at:  
Days Inn (715) 479-5151  
Super 8 (715) 477-0888  
(Blocks expire Jan 6<sup>th</sup>, mention **SnoTechnica**)

## Pre-Register

by Tuesday, January 3rd

[MandMSportscenter@gmail.com](mailto:MandMSportscenter@gmail.com)

(231) 369-4300

[SnoTechnica@gmail.com](mailto:SnoTechnica@gmail.com)

(630) 926-6695

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_

City/State \_\_\_\_\_ Zip \_\_\_\_\_

Email: \_\_\_\_\_ Referred By: \_\_\_\_\_

Credit Card Visa / MC / AMX / DISC \_\_\_\_\_ Exp \_\_\_\_ / \_\_\_\_

Vehicle and type of racing: \_\_\_\_\_

My area of special interest is:: \_\_\_\_\_

I will be attending (check one or both)

Wed, Dec 11 Seminar

Registration Cost: \$95 (either day)

Wed, Dec 18 Seminar

*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!