

# N O R D S T E R N



## PORSCHE

# April

# 2004

*Dedicated to the belief that . . . getting there is half the fun.*

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Front Cover - An enthusiastic crowd gathers at this past January's tech session at Auto Edge in Maplewood. Photo by Jerry Green.

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## Address changes

**PLUS!**

*“How to Join  
Nord Stern and/or  
Porsche Club of  
America”*

**Call Jon Beatty at  
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or email:**

**jon@minnetonkasoftware.com**

Leave your name, address  
and both home and work  
phone numbers.  
Your application/s will be  
sent out right away!

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**Name:** \_\_\_\_\_

**Old:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**New:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Send to:  
Jon Beatty  
17113 Mtka. Blvd. Suite 300  
Minnetonka, Mn. 55345  
Reminder: Annual Dues are:  
\$20 for January to December  
Check your mailing label  
for your expiration date!!!!**

# Letters to the Editor

---

Congratulations to **Andy Busche** as the Eventmaster, and to **Mark Bouljon** at **Carousel Automobiles** for a great swap meet yesterday!!!

It was a busy morning with many parts and items for sale, and a steady stream of buyers (okay, some were just looking) all morning.

**Keith Jones** did a fantastic job as always selling a lot of great items (real bargains) for the Courage Center.

If you were there you know what I mean, and you might have one of the door prizes. We gave away some Nord Stern items and had some excellent merchandise for sale. Items included sport shirts with the Nord Stern logo, leather key fobs with logos and Nord Stern patches.

This was also the first time we had the Nord Stern 45th Anniversary banner up.

Probably one of the most exciting things that came out of this was the **HUGE** interest we had from potential new Nord Stern members coming up to the registration table. We actually had several new members sign up on the spot!!!!

For those of you that missed it; better luck next year.

Thanks to Carousel Porsche for hosting the event and everyone that made this possible!

—Ed Hazelwood

First off; I would like to thank **Andy Busche** our Tech Session wizard and **Mark Bouljon** from Carousel Porsche for putting on such a well organized swap meet yesterday.

Second; I would like to thank **Carousel Porsche, Roy Henneberger, Phil White, Jon Beatty, Bobby Piper, Phil Hancock, Keith Jones, Luis Fraguada, Mike Jekot, John Perl II,** and **Roger Johnson** for Courage Center table donations. (If I missed any donors, please let me know).

Third; I would like to thank the always generous members of Nord Stern whose purchases, for the second year in a row, raised over **\$500** yesterday for Courage Center. Most of the purchases were \$20 and below.

Thanks again everyone for making the morning a success!

—Keith Jones

For those who missed it, the tech session at Precision Paint and Rust Removal in Long Lake was great! Talk about a ton of information and a most interestingly equipped shop (dunk tank for an entire car, bead blast booth big enough for a car, etc.). If this one comes up again, put it on your calendar.

Dan Dumbaugh and Kirby McLaughlin were most hospitable and answered all questions posed to them. You could tell that this was more than a business to them, it appeared to be a passion. It was worth the trip just to leaf through their photo album.

And, as always, a big thanks to the tech chair, Andrew Busche, for getting this all set up.

—Jon Beatty

# Nachrichten vom Herausgeber

---

Christie Boeder

Space is at a premium in this issue so my little column will be just that, little! Lots of stuff going on as we start heading into the 2004 driving season. While I watch the snow ever so slowly melting in my yard, I keep reminding myself that spring is just around the corner and that means lots of opportunities are coming up to get the car/s out of storage. Winter always seems to last perhaps just a tad too long around here! However, that does afford us a bit more ski time, too, so it's a direct trade-off for the Boeder family.

Lots of pictures to enjoy in this issue and just a reminder that I am ALWAYS looking for your personal favs - send stuff in, I love publishing your pictures!

Apex .....	IC
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## *Welcome . . . New Members*

(and returning members!)  
We hope to see you  
at upcoming events!



### **So, Just What Do We Do In Nord Stern??!**

**Hod Miller and  
Michael Miller**  
North Oaks, MN  
1995 993 Cab

**Richard Snyder and  
Tom Archhold**  
Brooklyn Park, MN  
2000 Boxster S

**Steve Tackett**  
Plymouth, MN  
1985 911 Targa

A *brief* synopsis of activities and events offered by your club, Nord Stern, and/or PCA or, just enough info to pique your interest??!!

**Autocross:** A driving event, teaching one how to maneuver one's car around a set course of pylons on a closed circuit. Instruction is available, drivers compete against the clock. No modifications to one's car are necessary. Some safety equipment needed (helmet).

**Concours:** A setting where Porsches are displayed for general viewing and/or inspection competition. Experienced judges evaluate the various models based upon cleanliness, overall condition and authenticity.

**Driver Training:** A driving course designed to teach and enhance high speed driving skill and technique on an actual racecourse. Training includes classroom sessions, on-track 'exercises' plus supervised lapping sessions.

**Driver Education:** High speed driving event on a closed-course racetrack (Brainerd, Blackhawk Farms) where drivers are grouped according to prior lap times. Instruction is available. Mounted fire extinguisher is required, performance enhancements are frequently made (but not required!).

**Time Trials:** On course timed lap with controlled starts and exiting.

**PCA Club Racing:** Wheel-to-wheel competition between drivers who hold PCA club racing licenses. There is a race class for every model Porsche. Safety modifications to your vehicle required.

**Rally:** An event wherein a driver and co-driver complete a predetermined route along open roads following a specific set of navigational instructions. Can be a TDS (time-distance-speed) or a 'fun' rally.

**Social:** Organized gatherings of club members, affiliates and family member to meet, eat and drink beverages! See our motto on page 1!

**Tech Session:** Casual educational session that span a wide range of topics, from general maintenance, through Concours prep, performance enhancements and general car/mechanical knowledge!

*“The Nord Stern calendar is absolutely filled with opportunities to enjoy our great Porsche automobiles. There are so many ways to spend weekends in the car, from the Concours, Autocross, Rally, German car Fest, the track events, and the car show weekends sponsored by Carousel and Maplewood Imports.”*

Ladies and Gentlemen; Start your Engines! Now is the time to get the car out of storage, check it over, get the annual Nord Stern inspection and DRIVE!

The Nord Stern calendar is absolutely filled with opportunities to enjoy our great Porsche automobiles. There are so many ways to spend weekends in the car, from the Concours, Autocross, Rally, German car Fest, the track events, and the car show weekends sponsored by Carousel and Maplewood Imports.

Check the newsletter or the online calendar to pick your events for 2004 and complete your registration early. Check the Nord Stern web site for registration and additional information or call the event master.

I personally invite all of you to pick your favorite type of events, put them on your schedule now and invite your friends to join in.

Following are just a few of the events from our 2004 calendar.

- April 23-25: BIR First Fling
- May 16: Maplewood Imports Auto Fair
- May 23: St. Cloud Autocross (open to other car clubs)
- May 23: Dakota County Technical College Women’s Only Driving Event
- June 11-13: BIR Track event/and Women’s Only Event
- June 12: German Car Fest
- June 19: Carousel Porsche 40 cars û 40 years
- July TBA: Metro Area Rally
- July 12-13: Road America Track
- July 25: St. Cloud Autocross (open event and MAC)
- August 6-8: BIR Drivers education and CLUB race
- August TBA: Concours
- August 19-20: Blackhawk Farms Track
- September 17-19: BIR Last Fling
- September 27-19:North Shore Fall Tour

We still need some event masters, look me up at the events!

Ed Hazelwood, [Racerone@peparts.org](mailto:Racerone@peparts.org)

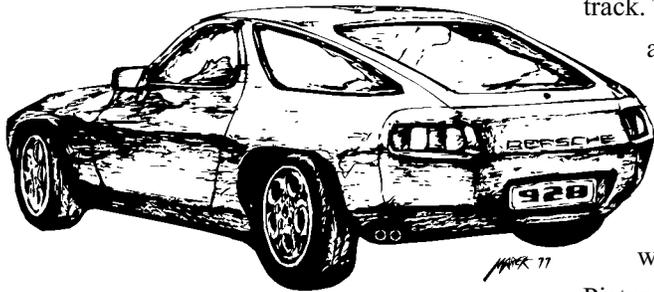


# The 928 Owners Club 2004 Convention

by Marc White, Event Chariman

The 928 Owners Club will hold its International Convention July 9-11, 2004. Attendees will caravan from several regions across the USA and world to centrally located Wichita, Kansas for three days of Porsche 928 immersion.

928



The excitement begins Friday morning July 9 at Hallet Motor Racing Circuit in Tulsa, OK for a Driver Education event. Imagine the thrill of German V8s rumbling about the track. The caravan of 'Sharks' continues on to Wichita that evening for a welcome reception at our headquarters hotel, the Wichita Hyatt Regency.

Saturday, July 10 features a morning tech session with international 928 experts sponsored by Best Mechanical Work. An afternoon Concours d'Elegance and Clean & Shine Show will be held in the air conditioned Wichita Convention Center.

Picture over 100 928s encompassing every model year from 1978 to 1995 available for perusal in cool comfort. Several innovative products developed by 928 Owners Club Members will be available for viewing and discussion. Late afternoon the 928s will move a few blocks and stage for the largest contingent of a single model at the show which draws 1,000 cars. We plan to again in 2004.

Sunday, July 11 offers the opportunity to test your rally skills. Following a post breakfast group photo we will begin a fun rally over the plains of Kansas.

The Porsche 928 is a driver's car, a "clean-sheet" design developed by Porsche engineers utilizing a water-cooled all-aluminum 4.5 liter 16 valve SCHC V8. The 928, introduced in 1978, has a nearly perfectly balanced weight distribution of 50/50 front to rear. The last production model was the 1995 928 GTS which develops 345 horsepower @ 5700 rpm. contact: Mark White, Event Chairman, 3555 E. Douglas, Wichita, KS 67208. 1-800-835-3524, fax, 1-316-685-0689 or email at: eventchair@928oc.org. Website: 222.928oc.org.

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# Maplewood Imports

Highway 61, Maplewood MN

*presents the 2004*

## Auto Fair

It's show and tell time again! Get the driving season underway with a trip to Maplewood Imports to see your friends and display your classic Porsche, Mercedes or Audi. All years and models are welcome!

Join us for a picnic of brats, hot dogs and soft drinks while you look over the latest offerings from Germany's premier car makers. Vote for your favorite car on display, register for door prizes, check out our parts department specials and enjoy the company of other car buffs!

**Sunday, May 16**  
*10 am - 2 pm*

Contact your salesperson or George Andeweg at 651-483-2681. Email [GAndeweg@hotmail.com](mailto:GAndeweg@hotmail.com). We'll see you and your car on May 16th!



All registrant donations go to the Children's Cancer Research Fund

# *A Busy 'Off-Season' for Nord Stern or, No Such Thing . . .*

*Text and Photos by Andy Busche, Tech Sessions Chair*

*“Officially half way through (the winter) and we have 3 tech sessions in the books. If you haven't been able to make any of the events, you're sure missing out.”*

In case you hadn't noticed, this off season has been a busy one for the Nord Stern group. Officially half way through and we have 3 tech sessions in the books. If you haven't been able to make any of the events, you're sure missing out.

We kicked off the season on January 10<sup>th</sup> with a session at Auto Edge in Mahtomedi. The topic to be covered was maintenance, and cover it we did. Bob Viau talked us through some popular maintenance topics for a spectrum of cars, starting with a bone stock 944 and ending with a GT3 cup car. From winter storage to on-track maintenance, no stone was left unturned. Turns out winter storage isn't really storage at all. Its closer to an extended park—which means regular starts aren't necessary, and probably do more harm than good. Thanks to Auto Edge for hosting this event that all in attendance surely learned from.

Next up on February 21st was a session at Precision Paint and Rust Removers in Long Lake.

Dan Dumbaugh and Kirby McLaughlin treated us to an eye opening experience that we won't soon forget. From metal fabrication to the dip tank and paint booth, this big shop with the little sign has it all. Who knew electric current and hot water removed rust? (Do you have any idea what it costs to keep a tank big enough for an entire car

heated to 205 degrees through a Minnesota winter? We didn't ask) We also had the chance to see many mid-project restorations, including a 930 Euro and 356 Speedster. If the pictures of completed cars were any indicator, there's no doubt the finished product will be everything Stuttgart intended. Thanks to Dan, Kirby and their crew for shedding light on a topic we knew much less about than we thought!

February 28<sup>th</sup> brought us to Apex SPG for a well attended safety session put on by Jim Bryant. Good food and conversation amongst



*At Precision Paint and Rust Removal: (R to L) Kirby (facing, in turtleneck), Harvey Robideau, Jon Beatty discuss the finer points of rust removal.*

antsy racers seemed to be the theme until Jim settled us down for his presentation. All eyes were glued to the screen as we sat and learned from various facts and studies Jim had compiled for our benefit. How often do you get to see a presentation from a Sparco or Corbeau race seat? As it turns out, more often than not the things you can do to improve your track car's safety cost less than yesterday's lunch. (2 hints for safer belts – less angles and keep them short)

Thanks to Jim for making us all more conscience of the importance, and in many cases, simplicity of making our cars safer.

By the time you read this, the tech event season will be over, and First Fling will be just around the corner. If you didn't make any events this



*Kirby (left, facing) and Dan contemplate what color will make this Euro 930 faster.*

season, be sure to tune in next winter for another exciting lineup of tech events!



*Dan (holding cup) tries to convince two skeptics that although not a Porsche, it is still worthy of restoration.*



*On view at Apex SPG/Sparco Tech Session February 28th:  
Ron Macfarlane (right) explains precisely how to karate  
chop this seat to fit in your race car*



*Ron Lewis, seated, explains to jon doe from Sparco that he  
"Just doesn't fit in my old race seat like I used to."*



*Left: Bob Viau of Auto Edge under the hoist at this past January's tech session which focused on automotive maintenance issues from your daily driver to race car. It was a fun and informative morning over in Maplewood!  
All photos by Jerry Greene*



*Mark your calendars today for a  
very special event.*

*All 40 years of the 911 on display  
Saturday, June 19th*

**CAROUSEL PORSCHE**

*Contact Mark Bouljon for more information  
763-744-9170*

## **Nord Stern 2004 Tech Session: Novice Tech Session**



**Saturday, April 10**

**Time: 10:00 AM**

**Location: Maplewood Imports**

**2780 N. Hwy 61, Maplewood 651 483-2681**

Interested in attending a Nord Stern Driver Training event? Thinking about finding out what it is like to drive your car on the track, or perhaps you want to improve your driving skills? This is the event for you! All first time driving school participants will want to make it to this tech session where you will find out what preparation is required for your car, what the Tech Inspection is all about, what you will need to bring with you to the track and most importantly, what you can expect at the Driving Training Event!

Questions, Contact: Eventmaster Andrew Busche at 612 824-3547  
Lee Jacobsohn, Driver Training Eventmaster (speed@tela.com or 612 922-8458)

# *Mukluk Madness, or What A Great Way to Spend a Winter Evening!*

---

by Christie Boeder

*“My only complaint was not enough roller coaster ‘riding!’ I have always loved roller coasters and with the Imax format, sitting in that theater was just about the same as being on a ride.”*

The only ‘madness’ I saw this past February 7th was on the big screen at our Minnesota Zoo’s Imax Theater. Wow, is what I kept thinking as I watched (and experienced!) various forms of high performance speed. Whether it be human (sprinter Marion Jones), to mechanical with Porsche cars (the Cayenne and race driver Lucas Luhr) to gravitationally aided (world-class mountain bike competitor Marla Streb - now some of those downhill runs were amazing!) there was a bit of everything in the movie, *Top Speed*, which Nord Stern members and friends saw in a special screening at our winter party.

The decision was made early to do something a bit different with our usual annual Winter Holiday Party. And different it was! Perhaps it was bit of madness as 100+ folks gathered to munch and nosh down in Apple Valley prior to loading up on a bus for the short hop over to the Zoo’s Imax Theater for our special viewing of ‘Top Speed.’ What a fun movie and with Tim Allen narrating it, it was very entertaining and turned out to be a fascinating look at speed and the human desire to ‘go faster’. My only complaint was not enough roller coaster ‘riding!’ I have always loved roller coasters and with the Imax format, sitting in that theater was just about the same as being on a ride. And in the dead of winter, that was a real treat! And I could have gone around Road Atlantic with Lucas a few more laps, too! Talk about vicariously experiencing speed.

All in all, it was a great evening and everyone who was able to attend commented how much fun it was. It was wonderful, too, to see a lot of ‘new’ and ‘old’ faces! We kept the ‘business’ down to a minimum so there was tons of just socializing, greeting, meeting and having a good time. As we say, half the fun is the people! Thanks to **Ed Vazquez** for managing the evening’s format. It just goes to show, change is good and doing something different is well worth the effort.

The following 3 pages are a collage of images from the evening, all taken by our very able photographer, **Jill Daneu** (except for one shot where someone must have wrestled that camera away!). Thanks, Jill, if a picture is worth a thousand words, the next 3 pages are priceless, to say the least.



*Ali Vazquez demonstrates what happens when your helmet is to*



*Arden Olson (l) with Janine and Todd Knettel*



*Jon Beatty says, This is only my 3rd helping, honest.*



*Are you sure that Spring is right around the corner*



*Left: AutoEdge's Pam & Bob Viau*



*Bring on dessert!*



*Becky Bailey (l) and Ali Vazquez are ready for the movie*



*Bob Fleming (r) enjoys the evening*



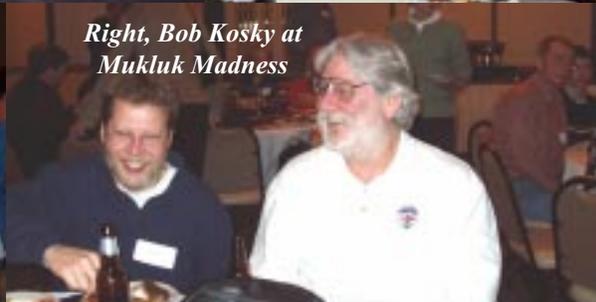
*Club Race Eventmaster Roger Johnson clues us in on the upcoming 2004 event*



*Chow time!*



*Bring on the beers and movie!*



*Right, Bob Kosky at Mukluk Madness*



*Marsha and Mike Drake*



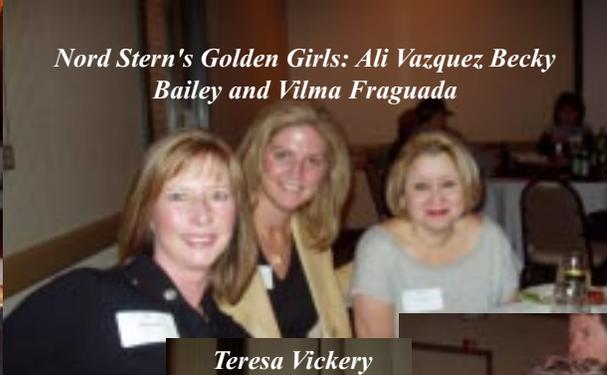
*Mitchell Berry (l) shares Concours secrets with Luis Fraguada*



*New Prez Ed Hazelwood and VP Chip Smith join Zone rep Joe & Michele Rothman in the theater for 'Top Speed!'*



*Outgoing Prez Scott Anderst (l) with new Prez Ed Hazelwood*



*Nord Stern's Golden Girls: Ali Vazquez Becky Bailey and Vilma Fraguada*



*This table is having way too much fun!*

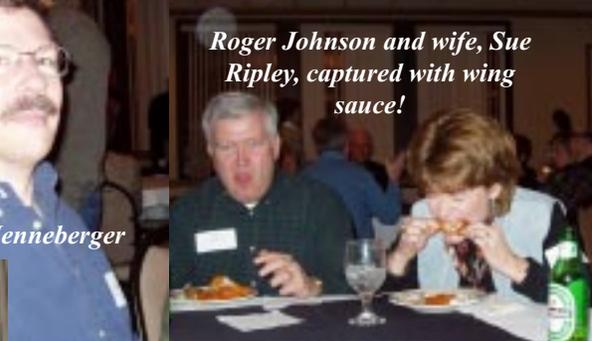


*Teresa Vickery*



*Teresa Vickery asks How many women 'hate' male drivers*

*Roy Henneberger*



*Roger Johnson and wife, Sue Ripley, captured with wing sauce!*



*New Prez Ed Hazelwood presents to outgoing Prez Scott Anders*



*Photographer Extraordinaire, Ron Faust and wife, Claire, enjoy the food*



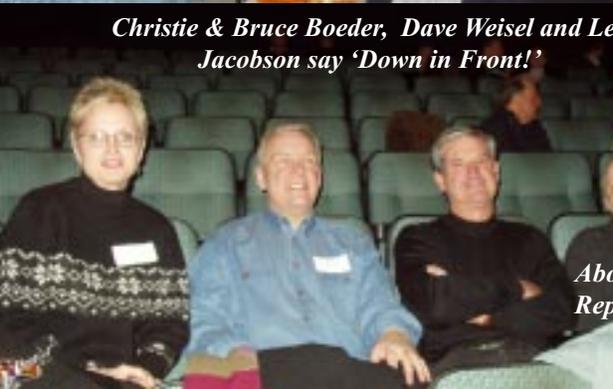
*Phil Thompson, Julie and Mike Courtney enjoying the evening's comaraderie*



*Scott Kuhne waits for the next course*



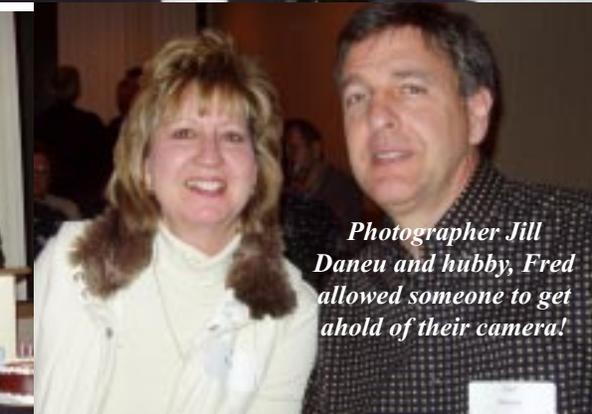
*North Shore Fall Color Tour Regulars, Kendra and Mark Schwabel venture out for 'Mukluk Madness'*



*Christie & Bruce Boeder, Dave Weisel and Lee Jacobson say 'Down in Front!'*



*Above, Joe Rothman, Zone 10 Rep; below: Scott Anderst and Ed Vasquez*



*Photographer Jill Daneu and hubby, Fred allowed someone to get ahold of their camera!*



*L: Christie Boeder schmoozes with Zone Rep Joe Rothman. Below: Ed Vazquez with Michelle and Joe Rothman*



*Dan Tokheim & Natalie Hoppe*



*R to L: Scott Kuhne, Dave Wesiel chat with fellow attendees*



*Ed Hazelwood and our fabulous bus driver, Cal Townsend, below: lots of yucks with Scott Kuhne, Bob Viau, Bill Berard and Ed Vazquez.*



*Hey speed movies are for young and old alike!*



*"Here's to you, Mrs. and Mr. Robinson" (as in Gayle and Mike!)*



*Keith and Susan Jones*



*Teresa says: High-speed driving at BIR is NOT just for guys!*



*Is that John Dixon (with Suzanne) with wing sauce on his lips.*



*Jeanne Andeweg chats with Bill Groshen*



*Keith Gruebele and friend Jodee.*



*Maplewood Import's George Andeweg*



*Past President Mark Skweres*



**NORD STERN**  
**Emergency Contact Information**

Date \_\_\_\_\_

**Driver Information**

Name \_\_\_\_\_ Telephone \_\_\_\_\_

Street Address \_\_\_\_\_ City/State/Zip \_\_\_\_\_

**Contact Information**

Name \_\_\_\_\_ Telephone/Cell \_\_\_\_\_

Street Address \_\_\_\_\_ City/State/Zip \_\_\_\_\_

Is the contact person at the track? Yes \_\_\_\_\_ No \_\_\_\_\_

Are there any exiting medical problems that should be noted?

\_\_\_\_\_

\_\_\_\_\_

**Have you been treated for any of the following medical conditions?**

**YES**

\_\_\_\_\_  
\_\_\_\_\_  
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- Frequent or severe headaches
- Dizziness or fainting spells
- Unconsciousness for any reason
- Eye trouble except for glasses
- Hay Fever
- Asthma
- Allergy to any medications
- Insulin dependent diabetic
- High or low blood pressure
- Stomach problems

**NO**

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**List any medications currently used** \_\_\_\_\_

\_\_\_\_\_

**To be submitted with your registration form**

\_\_\_\_\_

# 2004 Kalender

## April

- 9 **Friday Night Social at 7:00 pm**  
**Location: The Complete Garage**  
**(owned by Doug and Sue Arndt)**  
 Crossroads Center  
 1589 Hwy 7, Hopkins 952 939-0036  
 Eventmaster: Roy Henneberger  
 RSVP 952 474-7716 or henneb@charter.net
- 10 **Novice Tech Session**  
 Maplewood Imports  
 2780 N. Hwy 61 Maplewood, MN  
 Eventmaster: Andy Busche 612 824-3547
- 23 **First Fling Driver Training**  
 Brainerd International Raceway  
 Eventmasters: Lee Jacobsohn 612 922-8458
- 24,25 **First Fling Driver Education**  
 Brainerd International Raceway

## May

- 14 **Friday Night Social at 7:00 pm**  
**Location: Gasthaus Bavarian Hunter in Stillwater**  
 Eventmaster: Roy Henneberger  
 RSVP 952 474-7716 or henneb@charter.net
- 16 **Maplewood Import's 4th Annual Auto Fair**  
 Maplewood Imports, 2780 N. Hwy 61  
 See page 7 for further details!  
 Eventmaster: George Andeweg 651 483-2681
- 23\*\* **NS Autocross - Open to other Car Clubs**  
 St. Cloud Driving Facility  
 Eventmaster: Bill Berard 952 921-4955 x1  
 Dick Beers 612 827-7556
- 23 **"For Women Only"**  
**Advanced Car Control Clinic**  
 Time: 8:00 AM Dakota County Tech College  
 See page 20 for details, cost, rsvps

## June 2004

- 11 **"For Women Only" Driver Training**  
 Brainerd International Raceway  
 See page 20 for details, cost, registration info

## 2004

- 11 **'Fast Fling' Driver Training**  
 Brainerd International Raceway  
 Eventmasters: Lee Jacobsohn 612 922 8458
- 12,13 **'Fast Fling' Driver Education**  
 Brainerd International Raceway  
 Eventmasters: TBA
- 12 **Annual German CarFest**  
**Location: Rice Park in downtown St. Paul!**  
 Note New Exciting Location!  
 Watch *Nord Stern* for further details  
 Eventmaster: Paul Bergquist, Mercedes-Benz Club
- 18 **Friday Night Social at 7:00 pm**  
**Location: Maynard's In Excelsior**  
 Eventmaster: Roy Henneberger  
 RSVP 952 474-7716 or henneb@charter.net
- 19\*\* **Celebrating 40 Years Fast Years**  
**40 Years of 911 on Display**  
 Carousel Automobiles  
 Eventmaster: Mark Bouljon 763 744-9170

## July

- 4-10 **2004 Porsche Parade**  
**Fort Worth, Texas!**  
 Concours, Rally, Autocross, DE, Club Race, Socials/Dinners, Awards, see the website for all the details! www.pca.org or www.parade04.org
- 9-11 **928 Owners Club International Convention**  
 Wichita, KS  
 Featuring Tech Session, Concours d'Elegance and Clean & Shine Show, Moonlight Car Show and Street Party plus Rally. Questions? Marc White, 1-800-835-355 or email at: eventchair@928oc.org (www.928oc.org)
- 12,13 **Nord Stern at Road America**  
 Elkhart Lake, WI  
 Eventmaster/s: TBA
- 25 **Nord Stern Autocross On Sunday - Open other other Car Clubs**  
 St. Cloud Driving Facility  
 Eventmasters: Harvey Robideau 952 221-0443  
 Jeff Lawrence

## 2004

\*\* Denotes New Date/Event

**August 2004**

- 6 Nord Stern "Test and Tune" DE
- 7,8 Nord Stern BIR Club Race and Driver Education  
Eventmaster: Roger Johnson 763 557-9578  
Registrar: Cal Townsend, twm820@aol.com
- TBA Annual Nord Stern Concours d'Elegance  
Sponsored by Maplewood Imports and Carousel Automobiles. Details and location to be announced.  
Eventmaster: Mitch Berry 952 992-2959,  
Luis Fraguada 952 496-2288
- 19,20 Blackhawk Farms Raceway DE  
Eventmaster: Ron Lewis 952 932-0505
- 27-29 Run for the Hills, Part Deux  
Sponsored by Dakota and Rocky Mountain Regions. Groups leaving Sioux Fall and Denver to the Black Hills. Contact: John Forrette:  
jfmba@msn.com

**September 2004**

- 17 'Last Fling' Driver Training  
Brainerd International Raceway  
Eventmasters: Lee Jacobsohn 612 922 8458
- 18,19 Last Fling Driver Education  
Brainerd International Raceway  
Eventmasters: TBA
- 24-26 12th Annual North Shore Fall Color Tour  
BlueFin Bay  
(call 1-800-BlueFin to reserve your spot!)  
Eventmaster: John Dixon 952 939-9071

**October 2004**

- 5 Nord Stern Business Meeting - 1st Tuesday  
**Location: TBA Time: 6:30 pm**  
Eventmaster: Ed Hazelwood, 612 237-9319  
racerone@pcparts.org

**November 2004**

- 2 Nord Stern Business Meeting - 1st Tuesday  
**Location: TBA Time: 6:30 pm**  
Eventmaster: Ed Hazelwood, 612 237-9319  
racerone@pcparts.org

**December 2004**

- 7 Nord Stern Business Meeting - 1st Tuesday  
**Location: TBA Time: 6:30 pm**  
Eventmaster: Ed Hazelwood, 612 237-9319  
racerone@pcparts.org

# "For Women Only" Driving Events Program

We're excited to announce a 2004 series of Driving Events just for women. These are specifically "real driving in the real world" oriented. This program is being jointly offered by the Audi, BMW, and Porsche Clubs, but no membership/affiliation/make of vehicle is required to participate in any of the following. We invite all women to join us!

Questions? Curious? For more information:

Teresa Vickery, Nord Stern: [twv@MktgByDesign.com](mailto:twv@MktgByDesign.com) or 952 474-7126

Susan Anderson, Audi Club: [susan@andersonmotorsport.com](mailto:susan@andersonmotorsport.com)

Barb Avise, BMW Club

## DRIVING

- The meeting will
- Appetizers and
- "Chalk Talk" led
- We'll talk about
- Bring your friend
- ... "Join us even if you have a

Wow, A great event run by Teresa Vickery and Susan Anderson saw 50+ women avidly participating in a Q&A session covering multiple automotive issues ranging from 'how to find a mechanic' to 'why tires are important' to 'what tires are best in what situations' plus 'why do cars behave as they do in various driving situations!' Teresa and Susan's presentations were excellent—fun and informative! Everyone had a wonderful time!  
NEXT UP - Some on track driving skills  
Thank you Teresa and Susan! (and all others who helped organize this series!)

For additional information go to [www.glacierlakesqclub.org](http://www.glacierlakesqclub.org) Events page

RSVPs not required but appreciated by February 27, 2004 to Teresa Vickery: [twv@mktgbydesign.com](mailto:twv@mktgbydesign.com)

## ADVANCED CAR CONTROL CLINIC

May 23<sup>rd</sup> 8 AM, Dakota County Technical College (\$100)

- 16-year-old+ females with valid driver's license
- Professional Inspection not required, instructors will do a pre-tech the morning of the event
- Not timed, speed limited to 55 m.p.h., helmets are option (but recommended), convertibles allowed
- Classroom and in-car instruction included
- Continental breakfast and catered lunch included
- Morning exercises learning to maneuver the vehicle in a controlled environment, then a 1-mile course combining the skills learned.

For registration by May 7<sup>th</sup> go to [www.northstarbmw.org](http://www.northstarbmw.org) Driving Schools page

## DRIVER TRAINING @ BIR

June 11<sup>th</sup> 8 AM, Brainerd International Raceway (\$125)

- 18-year-old+ women with valid driver's license
- Professional Inspection not required; instructors will do a pre-tech the morning of the event. However, your car should be in good condition. If you're not certain, ask an experience club member or one of the following shops: <http://www.nordstern.org/Tech/Shops.html>
- Snell 95 or 2000 rated helmet required - we'll get helmet hair together!
- Classroom and in-car instruction
- Morning exercises followed by driving the 10-turn, 3-mile road course; not asked to go faster than feels comfortable. All activities are non-timed.

For registration by May 21<sup>st</sup> go to [www.nordstern.org](http://www.nordstern.org) Event Calendar page









# *Nord Stern Business Meeting Minutes*

## *March 2, 2004*

---

*“The final results of the election were finalized and Chip Smith is our new vice president. He has volunteered to lead plans for Nord Stern’s 45<sup>th</sup> anniversary celebration and he hopes to integrate it with events already scheduled.”*

The meeting was called to order by President Ed Hazelwood. Ed recognized some of the people that worked so hard and thanked all those who made Mukluk Madness a huge success. The final results of the election were finalized and Chip Smith is our new vice president. He has volunteered to lead plans for Nord Stern’s 45<sup>th</sup> anniversary celebration and he hopes to integrate it with events already scheduled. Pros and cons of merchandising were discussed specifically for a possible item to be made for the 45<sup>th</sup>. A 45<sup>th</sup> Anniversary banner has been ordered from national and should be delivered before our swap meet.

Also, thanks to Mike Selner for all his recent work updating our web site.

**Advertising:** We need to plan for earlier invoice mailing next year.

**Shop relations:** there have been some excellent tech sessions so far with good attendance. Reviewed those still scheduled, including swap meet at Carousel, Bob Johnson’s, and the novice tech session at Maplewood Imports.

**Safety:** Fluorescent stickers will be made to indicate to paddock and pit out corner workers that vehicles comply with equivalent safety. Again, the term refers to equivalent functions of equipment, not equivalent value. Red Light Rescue has not gotten back to us since recommendations given to them after contract review. Exploring community fire departments and other alternatives for the service. Corner workers have been contacted; there is a request for compensation increases.

**Driver Education:** ran numbers based on new rates - need to attract more participation at our events. Ambulance is reserved. Publish change to Saturday timed runs ASAP.

**BIR Relations:** met with Topeka organizers; for our Club Race, need a steward’s assistant to volunteer. Also need a scrutineer assistant, and a Pace car driver, and communicator. Carmichael Lynch has their part ready. Prepare a video clip for shop owners to use as a tool for their customers.

**Membership:** New member social in March. It will take place at the Edina Davanni’s, 50<sup>th</sup> and Hwy. 100 On March 31st. New Ulm has invited us to participate in their German Heritage Fest scheduled on two weekends in July 9-10, 17-18. More details are needed regarding an auto rally. Membership reports from national show we’ve been stable for many years—discussed how to increase participation. Roger will meet in April with Maplewood and Carousel to determine the best way to promote the club race.

**Met Council:** calendar is ready. An invitation was extended to be included in our July autocross. An additional expense connected with this arrangement would be an increased number of trophies.

**Rules:** no report

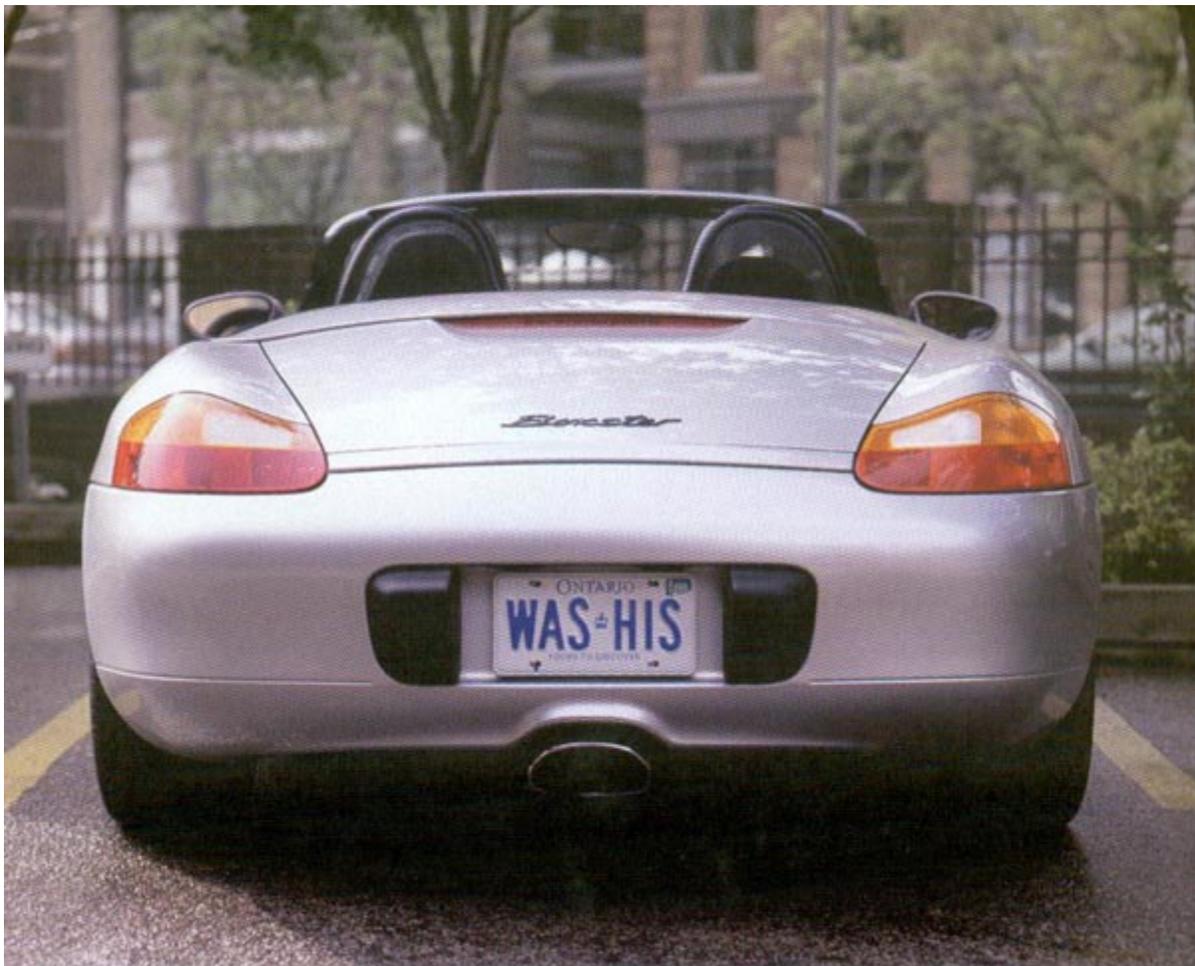
**Insurance:** no report

**New Business:** Letter and forms have been received from PCA for this year's newsletter contest. Completed forms are due by 4/5.

Regarding the Email about the proposal before the state legislatures restricting racing on the stree—Nord Stern responded in support.

Respectfully Submitted,  
Eleanor Renwick, Secretary

*Editor's note: No caption needed, to say the least, but I do like it! Photo courtesy Keith Jones via the Internet*



# First Fling Driver Training

## Friday, April 23, 2004

at Brainerd International Raceway

■ **Eventmaster:** Lee Jacobsohn 952 922-8485 or email: speed@tela.com

**Novice Class:** For drivers who have not attended a (or attended no more than one) Nord Stern high speed driving event at Brainerd Raceway. This class will prepare you to safely participate in Nord Stern Drivers Education events. Cost \$120 per person ( one driver per car). Limited to 20 students.

**Intermediate Class:** For drivers who have attended the Nord Stern Novice Class, or similar high speed school utilizing production based street cars, and have participated in less than six DE events in the last six years. This class builds on the topics covered in the novice class with a concentration on advanced car control techniques and cornering lines. Cost: \$110 per person (one driver per car). Limited to 20 students.

**Advanced Lapping sessions:** For drivers who have attended the Nord Stern intermediate school in the past and desire additional track time. Two lapping sessions will be provided on Friday afternoon. Instructors may be available at the drivers request. Cost \$60. Limited to 24 cars.

**Requirements:** Car must have passed a Nord Stern annual Tech inspection in 2003. Open top cars must have factory rollover protection or a roll bar that meets PCA club racing rules. Must be a valid PCA member and have a valid drivers license, must be over 18 years of age.

**REGISTRATION AND PAYMENT MUST BE RECEIVED BY APRIL 10TH, LATE FEE \$25**

**Rush this form along with your check payable to Nord Stern to:**

Lee Jacobsohn  
4849 Russell Ave. S.  
Minneapolis, MN 55410

Driver \_\_\_\_\_

Phone(Wk/Hm) \_\_\_\_\_ email: \_\_\_\_\_

Street \_\_\_\_\_

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

Car \_\_\_\_\_ Model \_\_\_\_\_ Year \_\_\_\_\_

Novice \_\_\_\_\_ Intermediate \_\_\_\_\_ Advanced laping \_\_\_\_\_

Class, if known \_\_\_\_\_ Prior high speed school? \_\_\_\_\_

*"In consideration of being permitted to use the BIR facility under the track rental lease of Nord Stern, I agree to be solely responsible for any and all property damage to the BIR facility caused, in whatsoever manner, by myself, or a registered co-driver either in the vehicle which I have registered, or in another vehicle, within seven (7) working days of invoice by it for all reasonable property damage which it has been billed, or which it paid to the operators of BIR for property damage to the BIR facility in which I, or my vehicle was involved. Nord Stern Region reserves the right to exclude any individual."*

Signed: \_\_\_\_\_

# Nord Stern 2004 Driver Ed Event Registration

*Brainerd International Raceway is a superb, three-mile road course,  
situated six miles north of Brainerd, Minnesota*

- **Eventmaster/s:** TBA for each DE Event
- **Cost:** \$150 per person; \$120 second person, same car
- **Requirements:** Snell 95 or newer helmet, A fire extinguisher (5 b-c min.) is required. It must be securely mounted using a metal bracket, roll bar (to Club Racing specifications) for cabriolets, 96 db noise limit, PCA Membership Card & valid driver's license
- **Experience:** To participate, you must have Nord Stern or other approved driver's training experience.
- **Tech Inspection:** Mail in form with registration, form available in Nord Stern or downloadable from Nord Stern website (PDF format) [www.nordstern.org](http://www.nordstern.org)
- **Refund Policy:** **Registration deadline one week prior to the event. Late Fee: \$50, however, FULL refund if you cancel by calling at least one day before event.**
  
- **Event:**

<input type="checkbox"/> <b>First Fling; April 24/25</b>	<input type="checkbox"/> <b>Club Race DE; Aug 8/10</b>
<input type="checkbox"/> <b>MidSummer: June 12/13</b>	<input type="checkbox"/> <b>Last Fling: Sept. 18/19</b>
<input type="checkbox"/> <b>Road Am. July 12/13 (\$250/\$225 for PCA members, 1<sup>st</sup> &amp; 2<sup>nd</sup> driver. \$275/\$250 for non-PCA, 1<sup>st</sup> &amp; 2<sup>nd</sup> driver. \$50 late fee applies.)</b>	

***Rush this form along with your check payable to Nord Stern to:***

Cal Townsend, Registrar  
15391 Flower Way  
Apple Valley, MN 55124

Driver \_\_\_\_\_ Car #: \_\_\_\_\_

Co-Driver \_\_\_\_\_ Car #: \_\_\_\_\_

Phone(Wk/Hm) \_\_\_\_\_ Cell: \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ email: \_\_\_\_\_

Car \_\_\_\_\_ Model \_\_\_\_\_ Year \_\_\_\_\_

Best Time BIR \_\_\_\_\_ Best time co-driver BIR \_\_\_\_\_

*"In consideration of being permitted to use the BIR facility under the track rental lease of Nord Stern, I agree to be solely responsible for any and all property damage to the BIR facility caused, in whatsoever manner, by myself, or a registered co-driver either in the vehicle which I have registered, or in another vehicle, within seven (7) working days of invoice by it for all reasonable property damage which it has been billed, or which it paid to the operators of BIR for property damage to the BIR facility in which I, or my vehicle was involved. Nord Stern Region reserves the right to exclude any individual."*

Signed: \_\_\_\_\_

Co:Driver \_\_\_\_\_





New Look  
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**Call Bobby Piper 612-599-2877**

7301 OHMS LANE SUITE 195

EDINA MINNESOTA 55439

1978 911SC

# 2004 Nord Stern Driver Education Tech Form

Porsche Club of America, Nord Stern Region

Name \_\_\_\_\_

Address \_\_\_\_\_ Email address: \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Phone \_\_\_\_\_

PCA Member # \_\_\_\_\_ Drivers License # \_\_\_\_\_  
 (Required) (Required)

Car Number \_\_\_\_\_ Best Time @ BIR \_\_\_\_\_ Nord Stern Car Class \_\_\_\_\_

Make \_\_\_\_\_ Model \_\_\_\_\_ Engine \_\_\_\_\_

List Modifications to Engine, Drive train, Suspension, Brakes and Wheels on back of this form.

## Technical Safety Inspection

To be completed by qualified shop or inspector.

Shop/Inspector Performing Tech \_\_\_\_\_ Shop Stamp: \_\_\_\_\_

<b>Lights</b>	<b>Pass</b>	<b>Brakes/Wheels/Tires</b>	<b>Pass</b>	<b>Interior</b>	<b>Pass</b>
Headlights	_____	Tires/Wear	_____	Steering/Play	_____
Front Signals	_____	Wheel Bearings	_____	Brake Pedal/Firm	_____
Rear Signals	_____	Rotors/Scored/Cracked	_____	Seat Belts/Anchors	_____
Tail Lights	_____	Brake Fluid/Full/Clean	_____	Fire Ext./Full/Mounting	_____
Brake Lights	_____	Brake Lines	_____	Helmet Snell 90/Better	_____

<b>Suspension</b>	<b>Pass</b>	<b>Engine/Trans.</b>	<b>Pass</b>	<b>Other Misc. Items</b>	<b>Pass</b>
Shocks/Leaks	_____	Fan Belts/Cracks/Tight	_____	Spare Tire/Secure	_____
Susp. Travel/Noise	_____	Fuel or Oil Leaks	_____	Battery/Secure	_____
Susp. Mounts/Rust	_____	Hoses, Wiring/Secure	_____	Windshield Wipers	_____
Tie Rods/Tight	_____	Transmission/Leaks	_____	Roll Bar 1" above occpts.	_____
Ball Joints/Tight	_____	Throttle Return	_____	head/s for Open cars	_____
Engine Mounts/Cracks	_____	CV Joints/Tight/Dry	_____	Equivalent Restraints	_____

### Condition of:

Brake Pads \_\_\_\_\_ Tires/Wear \_\_\_\_\_

Is shop re-inspection required Yes No

Items to be corrected \_\_\_\_\_

(Continue on back)

The driver/owner has read and agrees to abide by the Nord Stern Driver's Education Rules. **High speed driving is an inherently dangerous activity. The passing of this technical inspection means that the automobile has met certain minimum safety standards for participation in a driver's education event. However, no technical inspection can uncover all possible defects nor predict all unforeseen circumstances. Neither Nord Stern Region of the Porsche Club of America, Inc. nor the technical inspector makes any express or implied warranty of fitness for any purpose. It is the ultimate responsibility of the automobile owner and driver to insure the safe operation of this vehicle, and to maintain the car's safe operating condition over the course of the season.** In order to participate in any Nord Stern driving event all registered drivers must present a valid PCA Membership Card and Driver's License. Nord Stern Regions reserves the right to exclude any individual.

Driver/Owner's Signature \_\_\_\_\_ Date \_\_\_\_\_



# Remember When . . .

Photos courtesy Roger Johnson

First Fling 1980. Note how crowded the paddock is! The car on the left is a new 911 turbo which was a very big deal at the time. My car was the blue 924 parked next to the green 924.



Photo is of the sole "corner worker". Note there is no tower, no drag strip, etc.

*Editor's Note: If any member comes across some of those 'vintage' photos (with that said I remember 1980 in great detail!), I would love to print them. Send them on in!*

## CORVETTES of MINNESOTA TWIN CITIES AMATEUR MOTORSPORT CALENDAR 2004

DATE	EVENT	SPONSOR	LOCATION
APR 17	(Sat) NOVICE SCHOOL (CLASSROOM)	MAC	DUNWOODY INSTITUTE
APR 18	NOVICE DRIVER'S SCHOOL	MAC	MIDWAY STADIUM
APR 24	(Sat) AUTOCROSS	MAC	MIDWAY STADIUM
APR 25	AUTOCROSS	SCCA (LOL)	LA CROSSE, WI
MAY 2	AUTOCROSS	MAC	VALLEY FAIR AMUSEMENT PARK
MAY 15-16	NCCC SUPER WEEKEND	COM/SCCM	ST CLOUD
MAY 23	AUTOCROSS	SCCA (LOL)	LA CROSSE, WI
MAY 23	OPEN AUTOX	PCA	ST CLOUD
MAY 21-23	CORVETTES DO BRAINERD	SCCM	BIR
JUNE 6	AUTOCROSS	MAC	ST CLOUD
JUNE 19	(Sat) AUTOCROSS	MAC	ALLRIGHT PARKING LOT/St. Paul
JUNE 20	(Sun) Rally-x	LOL	
JUNE 27	AUTOCROSS	SCCA (LOL)	EAU CLAIRE, WI
JUNE 26-27	NCCC SUPER WEEKEND	COM/SCCM	ST CLOUD
JULY 11	AUTOCROSS	MAC	ST CLOUD
JULY 25	OPEN AUTOX	PCA	ST CLOUD
JULY 25	AUTOCROSS	SCCA (LOL)	LA CROSSE, WI
AUG 15	AUTOCROSS	SCCA (LOL)	LA CROSSE, WI
AUG 21	(Sat) AUTOCROSS	MAC	ALLRIGHT PARKING LOT/St. Paul
AUG 22	(Sun) Rally-x	LOL	
AUG 27-28	Ojibway Pro Rallye	LOL	
AUG 28-29	NCCC SUPER WEEKEND	COM/SCCM	ST CLOUD
SEPT 5		LOL	ELKO
SEPT 13	Met Council Mtg.		
SEPT 25	AUTOCROSS	MAC	MIDWAY STADIUM
OCT 3	Rally-x	LOL	
OCT 9	(Sat) AUTOCROSS	MAC	MIDWAY STADIUM
OCT 17	AUTOCROSS	SCCA (LOL)	LA CROSSE, WI
OCT 31	Rally-x	LOL	
DEC 6	Met Council Mtg		

AARRF also conducts numerous lapping and training sessions at various locations. Contact them for details.  
AARRF dates: May 16, July 17&18, Aug 7&8, Sep 18&19

COM = CORVETTES OF MINNESOTA—[corvettesofmn.com](http://corvettesofmn.com)

CONTACT: WALLY MAHLUM 952-431-0630

SCCM = SUBURBAN CORVETTE CLUB of MINNESOTA—[www.suburbancorvettesmn.com](http://www.suburbancorvettesmn.com)

CONTACT: RICK GROTHE 952-346-0810

MAC = MINNESOTA AUTOSPORTS CLUB—[www.mnautox.com](http://www.mnautox.com)—

CONTACT: DWIGHT McCULLOUGH 763-754-7111

PCA = PORSCHE CLUB OF AMERICA, NORD STERN CHAPTER—[www.nordstern.org](http://www.nordstern.org)

CONTACT: BOB KOSKY 952-938-6887

AARRF = ALL AMERICAN ROAD RACING FEDERATION—[LlewGAARF.com](http://LlewGAARF.com)

CONTACT: LLEW MONTGOMERY 612-374-3521

SCCA (LOL) = SPORTS CAR CLUB of AMERICA, LAND O LAKES REGION—[www.scca-lol.org](http://www.scca-lol.org)

CONTACT: DOUG DILL 612-925-1731

NCCC = NATIONAL COUNCIL OF CORVETTE CLUBS

ST CLOUD = MINNESOTA HIGHWAY SAFETY CENTER, ST. CLOUD, MN

BRAINERD RACEWAY = BRAINERD INTERNATIONAL RACEWAY, BRAINERD, MN

MIDWAY STADIUM = MIDWAY STADIUM PARKING LOT, ST. PAUL, MN

***NCCC SUPER WEEKENDS ARE OPEN AUTOCROSSES—MULTIPLE EVENTS PER DAY—  
NON CORVETTES are WELCOME***

Members of the region are welcome to place ads of a non-commercial nature at no charge for two months. \$10 for non-members. Submissions must be received by the 7<sup>th</sup> of the month prior to publication date: Send ads to:

Christie Boeder - NORD STERN  
11919 Hilloway Rd. W.  
Minnetonka, MN 55305

952 593-5544 or email ad to:  
editor@nordstern.org

## Zu Verkaufen

### 1980 911SC

68k Original Miles Black/Black All original parts including leather sport seats and Fuchs alloys. Modifications: All Glass Carrera Tail; Glass front air dam with oil cooler and brake intakes; Charlie Bars; Big Torsion Bars; Solid Bushings; RSR Rear Shocks; Turbo Tie Rod Ends; Adjustable Spring Plates; All Suspension Parts Nickel Plated; New ATE Rotors; Turbo Master; Jongbloed Wheels with Hoosier Tires (2-Track Days); Padded Custom Roolbar; Simpson 5-Point Harness-Cam Lock (2); OMP Seats; New Half Shafts; Ltd. Slip; Solid Motor Mounts; Rebuilt motor with all updates (6-DE events) The perfect DE car or Club Racer (with a couple of mods). \$26,500. If interested, email for complete list and photos. Paul Olson phone: 320-358-0600 (Day) or Email at: paulo@lactalhene.com.

### 1975 914-4

90k miles, white with black interior, equipped with 2.0 engine modified to 2.2; carbs and upgraded suspension. Comes with spare engine with carbs and extra set of tires/rims. This car has been set up for autocrossing and has been driven sparingly the last 8 years. \$8,000.

Jack Maruska 507-645-8578.

### 1986 911 Carrera Coupe

Guard's red/tan, aggressive looks and sound. Additions: SS Bursh exhaust, Lowered, SS brake lines, Weltmeister front strut brace, Turbo tie rods, K&N cone air filter, MOMO steering wheel, Cool brake kit, Recaro SRD with crotch belt cut out, Heavy rear torsion bars, Kouni adjustable front shocks, Corner balanced (130Lbs). Niceties: Cruise control, Sun roof, Power windows, Bumper mounted radar detector, Air, New Comp T/A's on O.Z Racing rims, Red bra, Cover. Not installed currently: Roll bar, "Frozen" front rotors, Weltmeister short shift kit, 5 point TRW seat belt harness, Original seat, exhaust, shocks, rims, etc. Mileage 67'263 no winters, no wrinkles. Maintained at Schneider Motorsports and Auto Edge. Great car! Price \$23,850. Pius Eigenmann, phone 763 553-9911, or email: piuseig@comcast.net.

### 1984 911 Targa

Guards Red, tan interior, 75,000 miles. Runs great, transmission rebuilt summer 2002. Asking \$18,500. Contact Dave Schuldheisz at 218-829-6293, Baxter, MN.

### 1986 Porsche 944 Turbo

Very nice clean 2 owner car! 106,000 miles. Non-smoker. No winters since 1989. Copenhagen Blue, black interior. Lowered 1" with progressive rate springs in front, stock rear. 968 m030 front sway bar, Weltmeister 19mm adjustable bar in rear. Corner balanced by Autoedge. Autothority 2.5 chipset. Recarro driver's seat. Alpine AM/ FM/ CD player. Nakamichi power amp. Asking \$12,000 with original phone dials. Have HRE 8 x 17 and 9 x 17 with BFG Comp tires for another \$2,000.00. Will sell HREs separately. Jim DeBenedet 651-

483-1006 (h) or 651-436-2075 (w).

### 1986 944 and Custom Trailer

944 is track ready (Auto Edge) with Hot Lap, harness, and many mods. Also have two sets of wheels with rubber, original phone dials and set of Mille Miglia. \$7,850. Trailer is a custom built with front end locked storage. \$2,850—contact Steve at 612 845-0478 or email at steve@paraide.com. Can email photos.

### 1975 914 1.8

Very nice Minnesota native. Stored all winters. Original except 195/65 Michelin X-Ones, K&N air filter, Bursch muffler (original still on hand), Euro tail lenses and H4 headlamps. New clutch, oil seals, and fuel and vacuum lines. Interior nice with no cracks in dash or tears in upholstery; seats re-done in 2002. Certificate of Authenticity, owner's manual, tool kit, original spare, all service and parts records. Custom bicycle rack available, if you'd like it. New (Porsche) baby forces sale. \$5,500. E-mail pics available. Contact Charles Stephens at 507 354-3642 or chasx00@yahoo.com.

### 1974 911

California car with stripped chassis rebuild 9,000 miles ago and an engine rebuild 5,000 miles ago. Stored in winter. Black/Black, Sparco seat with fabricated aluminum base, GT Enterprises air dam, factory whale tail, replica factory roll cage, Momo wheel, and RS interior door panels and door release. Quaiife rear end, solid bushings, double heim joint front shock tower bar, front and rear torsion bars (22mm/29mm), SC Brakes, and front and rear Weltmeister bars. 1978 3.0 liter aluminum case. Interior edges rounded, 8.5 to 1 compression, front mounted oil cooler, SSI exhaust, MSD ignition and rev limited, fuel

*“What we wanted to know at this point was why they rusted through and what can be done to prevent this extremely expensive failure in the future. So up to the battery tray we went to continue our investigation.”*

A quote I hear with some regularity is, “I went out to the car this morning and it just wouldn’t start.” But when I heard it from two customers driving the exact same cars, on two consecutive days, I thought it odd.

The cars in question were 1986 Porsche 944 Turbos. The problem we discovered after a short diagnosis was that the DME (Digital Motor Electronics) computer had failed. The computer was receiving all the right signals from its sensors, as well as getting the required voltage. However, it was not sending any impulses to the injectors or to the coil. When we find a failure such as this, we like to know the reason for the failure so history does not repeat itself. The investigation into the DME failure was a short one. Upon removal of the DME, we noticed a leak, not from the car, but from the computer. Computers are like cats, they hate getting wet!

The computers (Turbos have 2 ) sit in front of the passenger foot well, which is right below the battery. What had happened to these two cars was their battery trays had rusted through. It rained on Monday, the cars came in on Tuesday and Wednesday respectively.

What we wanted to know at this point was why they rusted through and what can be done to prevent this extremely expensive failure in the future. So up to the battery tray we went to continue our investigation. What we found resembled a compost pile! Wet decomposing leaves and dirt had formed a paste and clogged the water drain which normally keeps the battery tray clean and dry. Because the water could not escape, it mixed with the normal battery acid and etched its way through the metal. Prevention would be simple: Don’t park under trees and do rinse out the battery tray vent when you wash the car! If the tray is rinsed out regularly, no debris will be able to clog the drain and your computer, like your cat, will stay dry and happy! Good Luck!

pressure regulator and 46mm Webers. Extras-parts, original seat and rear flairs. All work by Nurburgring. \$18,000. John Finalyson, 952 835-3825 (day) and 612 925-9376 (eve).

**1974 914/2.0 Roadster**  
Guards red/black, ready for track, 2 Butler seats w/5 point harness, roll cage, no rust, new paint, Eibach springs, Koni struts, Padrini and stock wheels, fresh prof rebuilt engine by Auto Edge, super trap exhaust, original interior/seats/struts included. 47,500/OBO, John Cousins, 2500 Kennedy St. Minneapolis, MN 55413, 612 331-3620 or jcous25000@aol.com.

**Cat back dual outlet track exhaust system**  
Fits 1975 to 1989 911. This free flowing system delivers more power

with a much better tone than a dump pipe. Weighs 6 pounds less than stock muffler, \$100 OBO, Kelly 651-457-1404.

**1975 1.8-L Porsche 914**  
75,xxx miles, Berber Yellow Appearance Group, Center Console w/gages, Fog lights, Pedrini Factory Alloy wheels, Bilstein Shocks, Front /Rear Anti-Roll bars, Stainless Steel brake lines, Bursch Exhaust New clutch @ 65,000 miles, 120-Watt Blaupunkt Stereo, Second Owner, Stored inside all winters, near showroom condition, absolutely rust free. EXTRAS: Premium car cover, Bras, Tools, and manuals, Misc. maintenance items. Collection of vintage magazines with 914 technical information. \$6,900/OBO Kelly 651-457-1404

## Carburetor Fuel

*... continued from page 36*

Re-sealing the regulator is simple as the spring is so weak. Just place the top of the regulator back into position and secure it down. It can be secured with aluminum tape, epoxy or be tack welded.

With the regulator installed you will have perfect pressure at all times.

# Q&A: Carburetor Fuel Pressure Regulators

by Steve Grosekemper, Windblown Witness

**Q** – I have a '74 911 racecar with a built 3.2L motor that I have Weber carburetors on. The problem is I would like to use the stock C.I.S. fuel pump. However the pump makes over 75 psi of pressure and the carburetors only need 3-4 psi. Is there a simple fuel pressure regulator set-up for this application like is used on later fuel injected cars?

A. – There are several solutions for your problem. The easiest solution is to run a fuel loop through the carburetors. To do this you hook the pressure line up to one carburetor and the return line to the other carburetor. Then attach a balance hose between the two units. Next you will need a fuel pressure gauge attached to the pressure side of the carburetors.

You now have a fuel loop with lots of volume and no pressure. To add pressure you must have a restriction on the return side of the system. The easiest way to achieve this is to add a clamping device to the return line until you get your desired pressure. (This is what was done in the early PMO conversion kits.)

There are a few problems with this solution, however. First of all, clamping a fuel line, if done incorrectly can damage the line. Secondly, when you set the pressure to 3 psi at idle you do not have constant pressure. As the carburetors demand more fuel under peak H.P. the pressure drops dramatically. (Just like loosing shower pressure when the toilet gets flushed). If you increase the pressure so you maintain 3-4 psi under load, the chances are the pressure at idle will be excessive and overpower the needle & seat assemblies.

The solution is to install a standard Bosch fuel pressure regulator. (A regulator maintains a set fuel pressure no matter what the pump volume or engine demand) The problem is where to get a regulator like those used in later fuel injected engines that operates at a lower pressure level. While this regulator doesn't exist, it can be easily manufactured from a standard Bosch fuel pressure regulator.

The first step is to locate a regulator with the proper fuel fittings for your particular application. The regulator I have used for this application is an early 944 regulator, Bosch # 0 280 160 214. A new one will set you back about \$60, but used ones can be had for a fraction of that cost.

The modification for this regulator is actually quite simple. All that needs to be done is to open the top of the regulator and replace the high-pressure spring with a much smaller one. Here is how it is done -

Using a pipe cutter cut the top half of the regulator off. Don't use a saw as there is a large spring in the center of the regulator and you are going to want a very precise cut.

Open the top and remove the heavy spring.

Using a file dress the two pieces best possible so the mating surfaces are a flat as possible.

Install the new spring (part number 930.105.535.01). This perfectly matched spring (from a 911 chain tensioner) will provide a steady 3.5-4.0 psi of regulated pressure. Its cost is only \$1.33

*Continued on page 35*

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