



# THE SHORTLINE

**NATIONAL CLUB OF THE YEAR ~2001**  
**WESTERN REGION CLUB OF THE YEAR ~1999 ~2000~2002**

www.SDMBBST.net  
 May 2003

## FROM THE PREZ.....

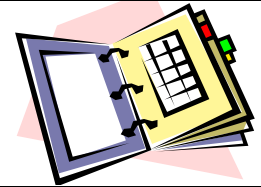
Warm water is here again. With the cold weather and rain, I wasn't sure if I'd ever make it out on the bay again. Finally, the weather is clearing, the mornings are warming up, and more importantly, the water is warming up. As of this morning, it is already at 65 degrees and rising. If you haven't been skiing yet this season, there's no time like the present to grab your ski, dip your boat in the water, and put those fine skiing muscles to work. Need some extra motivation, how about coming down to the next monthly tournament on May 18. Our first two tournaments have presented possibly the best water ever seen for all the rounds. Amazingly enough, this has coincided with some of the smallest turnouts!!! I understand it was still early in the year but May is now here and the excuses are gone. For anyone who has never been to one of these tournaments, they are a great way to come out, meet some new people and have a great time.

In other news, I would like to send a great shout of thanks out to Mike Dose and his hard working crew including Bret Fortenberry, Geoff Schmidt and Bill Schneiderwind. Mike and his crew have led up the effort to build a new trailer to pull the jump ramp out of the water to get it back up to snuff in time for our summer jump tournaments. We will be pulling the ramp out in the coming weeks and still need a lot of help with the maintenance once it's out of the water. Additionally, due to bad weather and low turnout, we have been forced to reschedule the breakwater repair day. The exact date hasn't yet been set, but will be posted soon. Anyone interested in volunteering with either of these projects, please email me at the address below. Finally, anyone that has not signed up for the SDMBBST yahoo group needs to do so now. Registration is available at <http://groups.yahoo.com/group/sdmbbst/>. This bulletin board is a great way to stay up to date on the latest club news and announcements.

That is the news for now. Hope to see you all on the dock and at the tournament on the 18. Until then, have fun and make huge spray.

A.J. Hubner ajhubner@raytheon.com

\* To easily sign up for the Yahoo group, you may bypass the personal information screen and just submit your screen name & password. Yahoo does not spam .....*editor*



## CALENDAR

### MAY MEETING

**Wednesday, MAY 14**  
**7:30 PM**  
**DESI 'n Friends**  
**2734 Lytton Street**  
**619-224-6409**

### MAY TOURNAMENT

**MAY 18 Pick and choose**  
**2S, 1T, 1J - Pick 3**  
**CLASS F - Registration**  
**6:30 ~ Skiing @ 7:00**

### JUNE MEETING

**LOCATION**  
**TO BE ANNOUNCED**

### JUNE TOURNAMENT

**JUNE 14 & 15 ~ 7:00 AM**  
**Sat & Sun**  
**(Class F C)**  
**Saltwater Spectacular**  
**2S**

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### BLIND SKI SEASON IS HERE!

Each summer the Main Club and our ski team get together and host days to teach visually impaired people to ski. Mark your calendars with these dates and plan to spend your morning helping out.

The Blind Ski Dates:

May 31st

June 21st

July 26th

August 9th

September 13th

Patti Torre is the coordinator between the Ski Team and the Main Boat Club who organizes these events. Please call or e-mail her:

PATRICIA.TORRE@pfizer

619-253-1113.

Thanks for all of your support !!!

### Desert Trips 2003

Many changes are being made this year in the requirements to rent Great Lakes. We must now have an AWSA Trained Driver & Safety Coordinator on each trip. The boats must also have a million dollars worth of liability insurance. Contact Mike Garry, mgarry@kyocera-wireless.com Geoff Schmidt, gschmid6@san.rr.com They are working hard to organize these great trips. **DON'T BE LEFT OUT!** Remember, sign up early, they fill up fast! Mark your calendar for these dates:

**June 21~22**

**July 19~20**

**August 23~24**

**October 4~5**

### AH, YES, DESERT SKIING!

Hey everyone, Its time to mark you calendars for our mid-week Great Lakes trips. I have listed all of the dates we have already signed up for. This year, as many of you may know, the rules have changed and the prices have gone up considerably. So we need everyone to commit ahead with hard cold cash/checks so that we can be assured a full trip. If you want a spot on the trip guaranteed. Be one of the first 8 to send in your money.

This year we are filling up 8 spots per trip. Two day trips we may increase the number of spots to 9 or 10. But never more than that. The cost is \$50 per person per day. This covers the cost of the rental and gas for the boat.

You must also be a member of AWSA. When you commit to your first trip please send a check and a copy of your current AWSA Card.

We will supply both a certified driver and safety person at each trip.

We are now accepting sign-ups for the trips in May and June:

May 22 and 23 ~ June 4 and 5 ~ June 19 and 20

The rest of our trip schedule is listed below. You are welcome to sign up for these dates as well. If it is too far in advance at least put them on your calendar and we will send out another announcement at the end of May.

July 17 and 18 ~ July 31 ~ August 1 ~ August 14 ~ August 28 and 29

September 10 and 11 ~ September 25 and 26 ~ October 9 and 10

Send your checks with the dates on the memo line to:

Greg Darling

4959 Montessa St.

San Diego, CA. 92124

gdarling@san.rr.com



## Grand Prix Event #2 -- April 6, 2003

Non-Shortline	Division	Total Buoy	Old Avg	New Avg	Score	Best Pass	Grand Prix Points
Robin Hodges	W1	20	15.5	17	4.5	2 @ 32 mph	100
Sean Canaday	M1	19	19.75	19.5	-0.75	1 @ 36 mph	95
Megan Buczek	W3	15	16	16	-1	3 @ 30 mph	90
Connie Morrison	W3	7	13	13	-6	1 @ 28 mph	85
Shortline	Division	Total Buoy	Old Avg	New Avg	Score	Best Pass	Grand Prix Points
John Morton	M4	26	21.5	23.75	4.5	2 @ 22' off, 34 mph	100
Mark Buczek	M3	32	31.33	31.33	0.67	2 @ 28' off, 34 mph	95
Geoff Schmid	M2	40	42.33	42	-2.33	4 @ 32' off, 36 mph	90
Connor Torre	B1	41	45.16	44.5	-4.16	5 @ 28 mph	85
Jeff Hinze	M3	21	26.83	26.83	-5.83	3 @ 15' off, 34 mph	80

## 2003 Meeting & tournament Calendar

May 14	Wednesday	Club Meeting <b>DESI 'n Friends</b>	7:30 PM
May 18	Sunday	<b>May Pick and Choose, 2S, 1T, 1J (pick 3)</b>	<b>7: AM</b>
June 11	Wednesday	Club Meeting	7:30 PM
June 14 & 15	Sat & Sun	<b>Saltwater Spectacular 2S (Class C)</b>	<b>7: 00 AM</b>
July 9	Wednesday	Club Meeting	7:30 PM
July 13	Sunday	<b>Jump into the Bathwater, 2S, 2J (pick 3)</b>	<b>7:00 AM</b>
August 13	Wednesday	Club Meeting	7:30 PM
August 17	Sunday	<b>Saltwater Nationals, 2S, 2T (pick 3)</b>	<b>7:00 AM</b>
September 24	Wednesday	Club Meeting	7:30 PM
September 28	Sunday	<b>Indian Summer 3-Event, 2S, 1T, 1J (pick 3)</b>	<b>7:00 AM</b>
October 15	Wednesday	Club Meeting	7:30 PM
October 18 & 19	Sat & Sun	<b>Harvest Moon Classic, 2S (Class C)</b>	<b>7 00 AM</b>
November 12	Wednesday	Club Meeting	7:30 PM
November 16	Sunday	<b>Turkey Fest, 2S</b>	<b>7:30 AM</b>
December 10	Wednesday	Club Meeting	7:30 PM
December 14	Sunday	<b>Way Too Cold to be Skiing, 2S</b>	<b>7:30 AM</b>



## The Physics of Fin Tuning 101:

Since the adjustable fins came out about 8 years ago it's been a blessing and a curse for skiers like myself who like to tinker. What differentiates it between a blessing and a curse is *knowledge*. If you know what you're doing it can be used to compliment your style and add buoys. If you don't, then you'll end up going out the front and slicing your head open on your ski. Believe me, I've done it both ways! Fortunately a lot of information has come out in the past few years that clarify what the adjustments do, and when you should and shouldn't tweak. Here's a little summary of some of the hydrodynamic theory I picked up along the way.

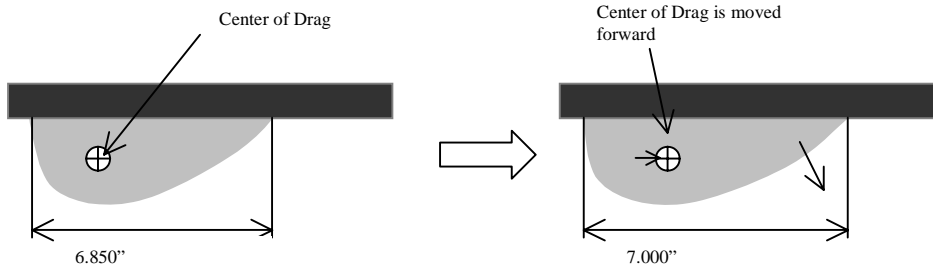
When you put the ski on edge in the preturn, it wants to carve an arc. The radius of this arc is determined primarily by 3 things: 1) the rocker (or bow) of the ski, 2) the taper, and 3) shape of the fin. The fin acts in much the same way as a rear spoiler on a race car; it adds down force which keeps the entire ski in the water. Without the fin, the tail would not have enough down-force, and you'd skip the tail out as soon as you went on edge. Conversely, if the fin were really deep, it would be tough to even put the ski on edge because the down-force would be working to flatten the ski out. In a more realistic situation, the fin and the ski combine to provide enough traction to keep the ski in the water, but enough slippage to allow the ski to carve an arc around the skis "hydrodynamic center". The hydrodynamic center is a very important term to conceptualize. It's analogous to the center of gravity, or "balance point". It is the point at which the ski pivots around and is generally located just in front of the front binding.

### Tip/Length:

Adding tip, means moving the front of the fin downward. The term "adding tip" stems from what the adjustment does...it lowers the tip of the ski in the preturn. Removing tip means raising the front of the fin and does just the opposite. The "tip" is characterized by measuring the length of the fin.

By adding tip (or increasing the fin length) you shift the center of drag forward which increases the torque to the ski which puts more of the ski in the water. The effect of is more deceleration in the preturn a tigher turning radius.

this  
and



Center of drag is moved forward which applies more torque along the fin's axis.



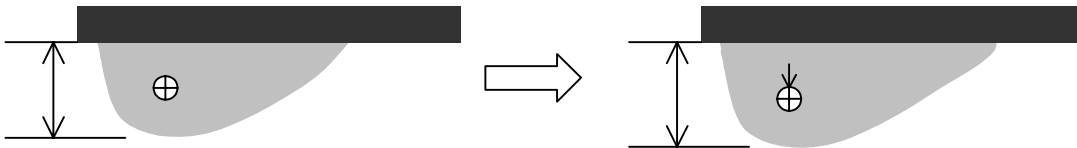
Torque applied by adding tip

This forces the tip down.



**Tail/Depth:**

Adding tail refers to lowering the rear of removing tip. That's not quite true, however, due to the shape of the fin (more area toward rear with a sharp angled back edge).



Lowering the back of the fin, doesn't have as much of an effect on the front/back center of drag

as it does on the up/down center of drag. So, by adding tail, you're essentially deepening the fin, which adds down-force. This pushes the tail into the water more and exerts an axial torque on the ski, which tends to flatten it out.

**Front/ Back Adjustment:**

As I mentioned above, the ski wants to naturally turn about an imaginary point called the hydrodynamic center which is located slightly in front of the front binding. The farther the fin is away from the center of the rotation, the slower (or more resistant) the ski will be to rotation. Also, this increased torque on the tail side of the hydrodynamic center forces the tip of the ski in the water. Essentially, the fin has a longer lever arm and is able to force more of the tip into the water.

Down force increases as a result of a deeper fin.



Torque along skis axis—flattens the ski out.



Skier's body mass applies a torque about the hydrodynamic center of rotation which speeds up rotation.

Hydrodynamic center of rotation

**Binding Location:**

When you go hard into a turn, your body mass applies a lot of force to the ski. The farther back you stand from the hydrodynamic center, the faster the ski will rotate. It will also begin to rotate quicker after edge change. Bringing the bindings forward slows the turn down and slows the transition down.



Well, that's enough for now, I hope this article gets you to think a little bit about the physics of what you're doing next time you're carving hard into a buoy. Just don't think about it too much or you'll end up in the drink. Just remember the standard disclaimers:

- Start with stock settings, that's how the ski was engineered.
- Make adjustments in small increments, I would recommend 0.020" or 0.5 mm at a time. • Take plenty of data at a given setup so you can feel a change. This usually means at least 2 sets with consistent water conditions.
- Write down what you've changed and how it felt, also record buoy count.
- Measure or mark your changes so you can always go back.

Geoff Schmidt

## ATTENTION !!

- ⇒ **IF YOUR NAME IS NOT ON THE ENCLOSED ROSTER PLEASE TAKE A MINUTE TO RENEW YOUR MEMBERSHIP. Errors or omissions, contact Jan Cantor at [gregandjancantor@cox.net](mailto:gregandjancantor@cox.net)**
- ⇒ To keep costs as low as possible and save a few trees, I will send you an electronic version of the newsletter via email. It will also be posted on the website. Make sure I have your correct e-mail address.
- ⇒ If you have not done so, please join YAHOO Groups that has been set up for our team. It's a great way for us all to communicate with each other via e-mail. Notices and bulletins will be posted. [sdmbbst-subscribe@yahoo.com](mailto:sdmbbst-subscribe@yahoo.com)

### 2003 Executive Board And Vol unteers

President	A.J. Hubner	858.581.6340
Vice President	Mark Buczek	760.754.0462
Secretary	Robin Hodges	858.587.7085
Treasurer	Megan Buczek	760.754.0462
Ski Tournaments	Geoff Schmid	858.484.4960
Web Master	Eric Dahlgren	619.275.0386
Equipment	Jeff Hinze	858.576.2486
Dock	Dean Cherry	858.277.1986
Desert Trips	Mike Garry	858.693.1933
Breakwater	<b>OPEN</b>	619.483.7892
Blind Ski	Patti Torre	858.274.2456
Social Chair	Connie Morrison	760.434.1157
Membership	Jan Cantor	619.337.9375
Newsletter	Kay Goodfellow	858.457.0867
Club Historian	<b>OPEN</b>	858.275.4654
Course Maintenance	All Collegiate Skiers	619-276-1940

⇒ **Got something to sell? Send me the info via [CKaySki@aol.com](mailto:CKaySki@aol.com) I'll get it in the next newsletter.**

**JUNE TOURNAMENT** is the first of 2 **Class C** events on our site. Entries **MUST** be mailed no later than **June 1, 2003**. Check out your Regional Guide for details or contact:

Eric Dahlgren 619-275-0386  
[Dahlgren@gnostech.com](mailto:Dahlgren@gnostech.com)

**FOR SALE** Malibu Boat 2003 Custom graphic Promo Response LX, Available in early summer, all options, Own the boat that pulls all SDMBBST events, Save thousands, Owning this boat is a great deal and will help the club have a new boat for 2004 **Call Dean @**

**858-277-1986**