

# AeroMarine Research

## TBPNews - Performance Report

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**TBPNews #142- July 29, 2011**  
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>>>> **Tunnel Boat Performance News** >>>>>> (over 5000 members!)  
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Check out [review of Jimboat's 13th Ed. "Secrets of Tunnel Boat Design" book in the last HotBoat magazine printed!](#)

### 1) Inflatable boat racing is coming to Canada



For the first time ever in Canada the Canadian Boating Federation, the world recognized sanctioning body for powerboat racing in Canada, will be racing "ThunderCat" inflatable boats (also known as P750's or SLT's/Super Light Tunnel Hulls, etc). They will race at an event in Dunnville, Ontario on August 13 and 14th, hosted by the Toronto Outboard Racing Club Inc and will be sanctioned by the Canadian Boating Federation and the American Power Boat Association.

The goal with the class at this race will be to generate interest, talk to interested people, and put on a good show for the spectators. Also at this event will be Stock Outboard Hydroplane oval racing and Outboard Drag Racing. There will be a beer garden throughout the weekend for spectators and live music Saturday night. Last year the Dunnville "Thunder on the Grand" event attracted about 1,500 spectators.

For the first few events taking place (at Dunnville in 2011 and various sites in 2012) any tiller motor that is under 1,000 cc is pretty much eligible (APBA SLT X-Class), but we are encouraging people to use show room stock 50 hp motors as this will be the goal as this gets more serious. The track will utilize the existing oval and drag strip the host club is setting up. The oval is about a 7/8" mile around. We will run as a minimum two heats per day of 4 or 5 laps each starting with a lemans start. Race duration will be about 5 miles each heat. Points will be awarded each heat and then added together to determine the winner. But like mentioned above, at this point we just want to get people out on the water and have a good time! So whether you are slow or fast, 30 hp or 75 hp, novice or experienced, come get involved with others who share your interest at this historic event for ThunderCats in Canada.

Entry fee is \$40 per two person team per day (\$35 if you pre-register). Driver and co-pilot must also be a racing member of either CBF or APBA (the sanction and insurance provider). You can purchase a \$50 CBF weekend racing membership on-site if you like, this is valid for USA or Canadian participants. If you only have a driver, I'm sure some of the other hydroplane or drag racers who are already on site would jump at the opportunity to be a co-pilot for the day. The club is expecting about 140 entries in various classes over the two day event. Sure to be a great show to be a part of.

For more information on the event, required safety gear, or questions, please feel free to contact [Andrew Fralick](#), CBF Outboard Racing Commission, Vice-Chair, Brampton, Ontario. If you would like to discuss sponsorship opportunities, or donate prizes big or small, or have a race or demonstration event in your area, please feel free to contact [Andrew Fralick](#).

see more at: [aquariusinflatablesna.com](http://aquariusinflatablesna.com) and [highcommanddistributing.com](http://highcommanddistributing.com)

For more info on the sport and other events going on, check out [ThunderCats on Facebook](#).

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## 2) Rough weather fails to stop Torbay Classic



Dean Gibbs and his 1,400hp Fountain Going Lean (pictured) took the overall prize in the large Marathon class at the Torbay Classic powerboat event.

Organized by the Offshore Racing Drivers Association, the Torbay Classic has signaled a revival in the fortunes of national offshore powerboat racing with over 30 craft representing four classes taking part. But the main focus was on the new Marathon classes (formerly known as Offshore classes I and II).

Strong south-westerly winds gusting Force 6 was going to make it a tough fight. The start saw the lead taken by Vahid Ganjavian driving the American-built Phantom, Fury. He was followed by Gibbs with Marcus Hendriks third aboard

the veteran Shead/Cuv Cinzano. The 105-mile course took competitors from Torquay west to Plymouth and out to the Eddystone lighthouse. Here sea conditions were particularly challenging and it wasn't long before an engine problem put Ganjavian out of the race. The run back saw Hendriks choose the shorter, direct offshore course back to Torquay. It proved his undoing. Thinking he was ahead, he tended to ease back whereas Gibbs aboard Going Lean found calmer weather inshore. Despite the longer route Gibbs made better time, arriving at the finishing line clear winner, 33 seconds ahead of Cinzano after averaging an impressive 54.8 knots over the course.

Check out more at [mby.com](#) and [orda.co.uk](#)

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## 3) Great Powerboat Videos



Check out these great videos....

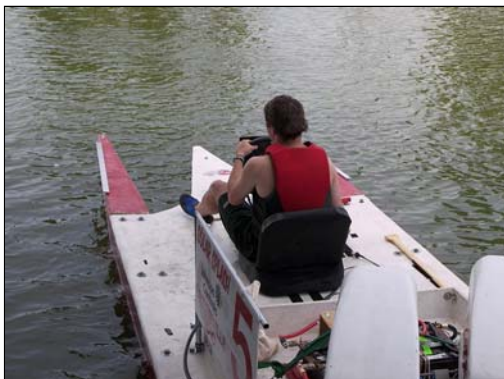
.....[Crash between Shaun Torrente, Team Sweden and Marit Stromoy, Team Nautica at GP Portugal \(May 2011\)](#)

.....[Interview of Shaun Torrente, USA, Team Sweden after the blow-over with Marit Stromoy.](#)

*[ed note: see also Jimboat's exclusive interview in RaceBoat International magazine, with Shaun Torrente, the newest up-and-coming star of [2011 F1 H2O World Championship circuit, Shaun Torrente](#) together with his Crew Chief Ted Gryguc].*

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## 4) FEATURE: "2011 Solar Splash" - World Championship Intercollegiate Solar/Electric Boating



The 2011 Solar Splash, the World Championship of Intercollegiate Solar/Electric Boating, was held this year in Cedar Falls, Iowa, from June 8–12, with the University of Northern Iowa and the City of Cedar Falls as hosts.

Cedarville University from Ohio continued its "dominance" with its sixth Collegiate World Championship title in the last eight years. Last year's champion, the University of New Orleans, finished second just 6 points (out of a 1000) points behind. One of the two teams from Turkey, Istanbul Technical University, returned this year and took third place overall. The University of Northern Iowa and the University of South Carolina placed fourth and fifth, respectively. Kansas State University- Salina, Dokuz Eylul University from Turkey, Orono Senior High School from Minnesota, the University of Arkansas, and Washington State University finished 6th through 10th, respectively.



Other participating teams included: The University of Rochester; Geneva College; California State Polytechnical-Pomona; Middle Tennessee State University; Northeastern University; the University of Central Florida; the State University of New York-Stony Brook; Tecnologico de Monterrey from Mexico; and St. Louis University.

The teams taking part in the Solar Splash earn points in seven different categories, including technical report, visual display, and workmanship, as well as during the "on-the-water" competition events of qualification, solar slalom, sprint, and endurance. These latter two events combined account for 650 out of the 1000 total points, so they are the teams' major emphasis. In the Solar Splash's 300-meter sprint event, each team has three heats, and the two fastest times were added to arrive at a final score. In the Endurance event, the boats run for 4 hours, with the team traveling the furthest winning.

The Solar Splash competition is scheduled to be held again in Iowa during June 2012 and 2013, after which it will "rotate" to a new venue.

[with thanks to Dr. Jeffrey H. Morehouse, University of South Carolina, College of Engineering & Computing/Solar Splash 2011]

See more at: [solarsplash.com](http://solarsplash.com)

**[Note: Do you have any of your own questions on performance hull design? Send your question or story to [Jimboat@aeromarineresearch.com](mailto:Jimboat@aeromarineresearch.com) ]**

See more Performance Articles at: [aeromarineresearch.com/articles.html](http://aeromarineresearch.com/articles.html) \*\*

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### **5) Dave Villwock passes up Bill Muncey to set all-time career win mark in Unlimited Hydroplane racing**



Detroit, MICH. - While the debate about whether "winningest" is actually a word, there's no debate that it applies to U-96 Spirit of Qatar driver Dave Villwock.

"I still think I'm in a great club, I guess you could call it the Rushmore of boat racing," Dave Villwock said after becoming the winningest Unlimited Hydroplane boat racer in history. "Myself, Chip Hanauer and Bill Muncey each brought something different to the sport."

Villwock collected his ninth Gold Cup trophy (fourth consecutive) and in the process passed Muncey, who captured eight Gold Cups. To understand the company Villwock, 57, has surpassed you have to compare their records. Muncey had 62 career wins and Hanauer had 61 race victories. Dean Chenoweth is fourth with 25 race victories.



Getting the victory on the Detroit River was anything but easy for Villwock and his Spirit of Qatar team. Villwock survived a violent collision at the season opener last week in Indiana and spent some long nights with his teammates repairing the Air National Guard hydroplane. Once in Detroit, he had to borrow parts from fellow competitors and had just one turbine engine and a gear box left. Villwock was focused going into the final and made sure no one was going to keep him from getting the record in Detroit. He jumped out to an early lead, averaging 138.8 mph, and quickly putting some distance between his boat and second-place finisher Scott Liddycoat in Valken Sports boat. The rookie driver has just two races under his belt on the Air National Guard Series. He was excited to finish second in the race, which is one of the oldest in motorsports. "No doubt he's one of the best that's ever been," Liddycoat said. "To finish



second to him, I'll take it."

Villwock earned his first career victory on Mission Bay in San Diego, Calif., in 1992. Since then, Villwock has earned nine national high points championship titles. Over the past 10 years, Villwock has won 145 heats of the 223 heats he has started.

Bill Muncey's widow, Fran, was proud that Villwock broke her late husband's record. She helped the Seattle area resident get hired as the crew chief for the Circus Circus boat in the 1980s. Bill Muncey died in a racing accident in Acapulco, Mexico.

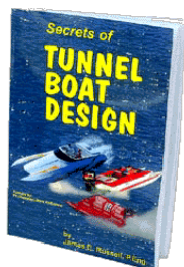
"Bill would have been very proud of him," said Fran, who lives in the San Diego area. "He's so dedicated to the sport and has paid his dues."

Villwock says he'll take some time to reflect on his status atop the sport—at least record wise, as he heads to the Pacific Northwest in his luxury RV. He was asked what Muncey would think about the sport today, and said, "He would really appreciate the sport and where it's come and how competitive it is."

See more at: [kndu.com](http://kndu.com) and [hydroinsider.com](http://hydroinsider.com)

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## 6) FREE "Secrets of Tunnel Boat Design" book with TBDP/VBDP V7.13 software!



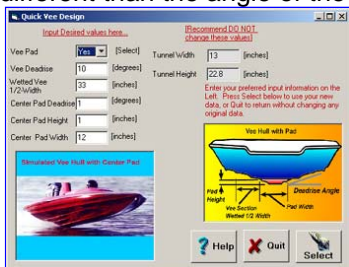
**FREE 13th edition "Secrets of Tunnel Boat Design" book with purchase of NEW TBDP/VBDP software -....until July 31 2011**

**TBDP/VBDP© - BIG NEW FEATURES...YOU ASKED FOR IT...NOW TBDP© HAS IT!....**

- \*\*\* Full Vee Hull and Vee-Pad hull performance analysis (included in one software package!)
- \*\*\* New aerodynamic algorithms.
- \*\*\* Porpoise Analysis - We have developed a new analysis tool! XPorpoise is an engineering tool developed by AR that predicts your hull's inherent susceptibility to porpoising...and shows how to fix it!
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\*\*\* Centerpod Wangle input - now you have the ability to represent a special trim angle of the hull CenterPod that is different than the angle of the Sponsons.



- \*\*\* NEW USER picture import feature.
- \*\*\* New CG import feature.
- \*\*\* Dozens of NEW features - including VEE HULL DESIGN software INCLUDED.
- \*\*\* NEW - Now can select Inside Spray Rails or Outer Spray Rails or BOTH. NOW input measured Static CG of boat hull if desired (otherwise TBDP© will calculate for you).
- \*\*\* NEW - 'Rate-of-Change' performance analysis!
- \*\*\* Free Expert Analysis Reports (4) included shows how you can apply expertise to your design/setup.

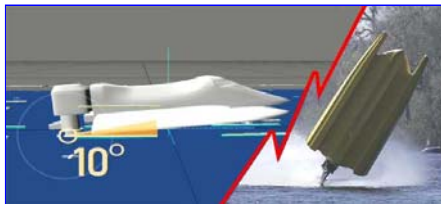
...AND Lots more new great Features in V7.13 TBDP© software!

...check out the new TBDP© software V7.13 at: [aeromarineresearch.com](http://aeromarineresearch.com)

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## 7) Powerboat Racing on TV

\*\*\* "**Thrill Zone: Extreme Powerboats**" - National Geographic powerboat show.



Author **Jim Russell** (Jimboat) is powerboat design technical consultant on a new National Geographic special for "Thrill Zone" series...

Details at: ([channel.nationalgeographic.com](http://channel.nationalgeographic.com))

check out more at AR's website! [aeromarineresearch.com/NatGeo\\_thrill-zone.html](http://aeromarineresearch.com/NatGeo_thrill-zone.html)

