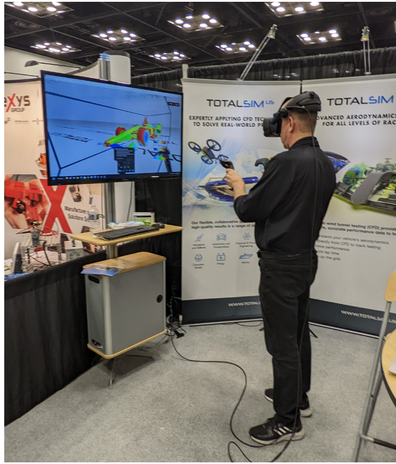


HAPPY HOLIDAYS!

FROM ALL OF US AT TOTALSIM

(Left to Right) Robyn, Saj, Tom, Miguel, Naethan, Sarah, Ben, Greg, Buzz, Drew, Alberto, Ray, Danielle (and not pictured: Perry, Michael, and Jim)

As 2022 comes to a close, we want to thank you, our friends, colleagues and customers for your friendship and continued business this past year. We are grateful that you have chosen to partner with us. As we prepare to begin a new year, we remain committed to providing the most advanced CFD services and expert advice to solve your toughest challenges, and we look forward to partnering with you in 2023!



PRI Recap

Attending PRI is a highly anticipated event for us each year and last week it didn't disappoint - Ray, Naethan, Tom and Ben attended. We were able to touch base with old friends and new. If you are unaware, this Performance Racing Industry (PRI) event is the biggest of its kind that is wholly dedicated to racing. And we were able to do more things this year than ever before in our booth.

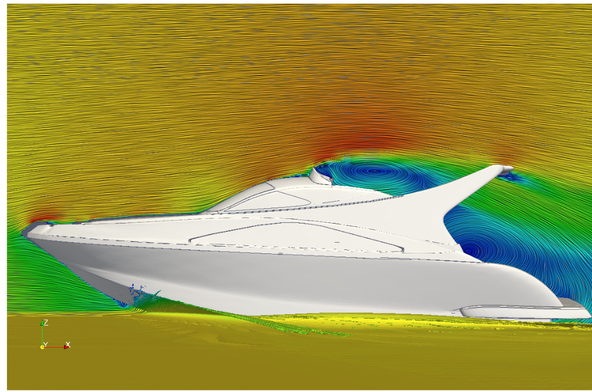
- We had a VR rig demonstrator set up for attendees to stop by and play with 'smoke' around several cool cars in our Digital Wind Tunnel
- Jagger Jones, the 2022 USF2000 Championship Rookie of the Year, was in our booth Friday signing autographs
- Jagger's 2023 No. 98 TotalSim INDY NXT race car was on display with TotalSim livery

EPARTRADE

Ray and Chris Lerch from iRacing presented during the EPARTRADE Online Racing Industry week. Their, dare we say, podcast style presentation titled "How the Digital Wind Tunnel Improves Real World and Virtual Racing - A conversation about how iRacing leverages TotalSim's CFD capabilities" was well received. Ray and Chris really enjoyed doing it and hope to have the opportunity to do something similar again.

We hope you had the opportunity to watch it live but if you didn't, not to worry, EPARTRADE is in the process of putting all the videos on-line. As soon as it is

available we will post it to our social media and the TotalSim website so keep an eye out for that. We are sure you don't want to miss out!



Tom and Naethan took on New Orleans

As the month transitioned from November to December Tom and Naethan found themselves in New Orleans for the International WorkBoat Boat Show. They were there to discuss how we use our computational fluid dynamics expertise to address things like:

- Vessel design & performance
- Planing surfaces & hydrofoils
- Propeller design
- Intake and induction systems
- Thermal management
- Noise and comfort

If you were not at the show and would like to learn more, you can see some of the work we can share in these articles ([article 1](#) and [article 2](#)) on our website. Also, we have a small sampling of capabilities on our TotalSim [Marine webpage](#).

100 Years of CFD?

While there can be some debate as to when CFD began, and certainly 100 years does seem to be a bit of a stretch we -as a CFD company- can't let this mile marker pass without comment. In October, NAFEMS published a special edition of "Benchmark" to commemorate the anniversary. The issue "casts a reflective gaze on the evolution of CFD" and predicts where it may progress in the future. Are the mathematical methods outlined in Lewis Fry Richardson's publication '*Weather Prediction by Numerical Process*' written in 1922 the beginning of CFD or was it after the first computers were invented? There is an excellent time line and a series of articles that investigates the history and future of CFD in depth. We recommend you take some time to review it and let us know what you think.

Holiday Office Hours

The TotalSim office will close for an extended holiday break for our staff from December 23rd through January 2nd.



[Check out our website!](#)

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