



TSUS e-Brief 2022 | Issue 3

In a high tech field such as computational fluid dynamics (CFD), it is important to stay on top of advancements in order to provide the best and most accurate results possible.

How TotalSim stays current

Research - Reviewing the literature is the first way we keep up to date on techniques or advancements in CFD. This is especially important when we are moving the technology forward and developing methods for handling unusual flow models. Additionally, we are often looking for experimental data for to use for correlation that way we can be confident in our results when we push the envelope from what we have done before. This growth is what makes us a leader in this space.

Conference attendance - This includes being part of review committees for conference technical sessions. Ray and Naethan are very active on several SAE committees and are often seen reviewing papers for conference sessions. Additionally, attending conferences and trade shows is a good way to see how each industry we follow is advancing. Networking at these events is how we keep abreast of what is important to our clients and potential clients and allows us to learn about their struggles so we can offer appropriate solutions.

Participate in professional society committees - For example, members of our staff sit on the Society of Automotive Engineers (SAE) International's Motorsports Engineering Committee, Aerodynamics Committee, Automated Commercial Vehicle Systems Committee, Truck and Bus Aerodynamics and Fuel Economy Committee, and Road Vehicle Aerodynamics Forum Committee. These groups all have regular meetings and offer an opportunity to share ideas and set standards in the industries on which they focus.

Participate in workshops - Regular participation in NASA's High Lift Prediction and the Drag Prediction Workshops and the Automotive CFD Prediction Workshop are invaluable to us in improving our processes as they give us an opportunity to compare our results to other researchers and correlate to the experimental data that is provided.



During some down time in Southern California earlier this month, Ray and Naethan were found in the cockpit of a B-17 at the Lyon Air Museum. While Ray is a pilot, he is not yet certified to fly the B-17... Many thanks to Mark Forster for a VIP tour of the museum!

TotalSim out and about

Ray attended SAE's WCX this month and was happy to connect in person with so many people after two years of virtual meetings.

Ray and Naethan also were in Southern California and went to the Acura Long Beach Grand Prix, stopped by the MD&M West Medical product design trade show, visited with current and potential clients all over the region and touched base with our CA staff. They enjoyed some good food and beers with old and new friends. (See the photo above.)

Robyn attended Ohio's Air Mobility Symposium at the Ohio State University. Tours of the Springfield Beckley UAS facilities, the OSU airport, OSU CAR, OSU ARC were a bonus to the Symposium agenda. It was a fascinating event.

Coming up: Ray and Tom Heinmiller (TSUS biz-dev) are attending AUVSI's Xponential. Reach out if you want to touch base with them at this event.

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