

# The Rotator

Spring, 2016

## Engineering Humor

*A mathematician and engineer are sitting in a bar when the bartender walks up and tells them, "The woman in the corner fancies both of you. One of you should go and talk to her, but every step you take will only halve your current distance to her." The mathematician says, "Well, I guess that's not going to happen then." He pays his tab and leaves, the engineer stands up and takes a few steps when the bartender says to him "You do realize you will never reach her?" The engineer turns to the bartender and replies "Yeah, but I'll get close enough for practical applications."*



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## Out & About

AME sponsored the [MIASF's Billfish Tournament](#) and came in second place with a 10.2 lb King Mackerel.



The [Electric & Hybrid Marine Expo](#) came to town January 11-13th and AME was there to check it out.

[SeaTrade](#) was hosted in Fort Lauderdale for the first time ever and AME was there. They also attended the very popular [W & O](#) party. "Seatrade is an excellent show. Attending in conjunction with AME allowed us to see many potential clients, and also catch up with current customers, and industry colleagues." - Ed Kelleher, Windrock.



[Rybovich's](#) Boatyard Bash, celebrating the Palm Beach Boat Show was Friday, 3/18. AME was there making the rounds with [Crew Unlimited/CU Yacht Charters](#).

## What's AME Up To

AME is proud to announce our newest team members, Mechanical Field Service Engineer, Tim Crimmins and Mechanic/Machinist Jose Iparraguirre. Tim earned his bachelor of science in marine engineering from Massachusetts Maritime Academy, and is also a Licensed Chief Engineer of Offshore Supply Vessels, and 2nd Assistant Engineer of Steam, Motor, and Gas Turbine Vessels/any horsepower. Prior to joining AME, Tim was a Ship Engineer where he gained extensive experience and knowledge on engine room maintenance on naval ships. Jose comes to AME with 30 years of experience as a Machinist.



[FYBA's](#) Second Annual Engineering Seminar will take place on Tuesday, April 5th at the Westin. AME is once again a presenting sponsor, and President, Rich Merhige will be presenting on Noise Suppression: What's That Noise?. "More than 180 yacht brokers, technical service providers and other yachting industry professionals attended last year's Yacht Engineering Seminar, and we expect close to 250 this year," said FYBA Executive Director Cindy Sailor.



On April 9-10, AME will be mentoring a team at the [MIASF Plywood Regatta](#). AME CAO, Christine Battles will serve as emcee for the two day event. "Rich has been mentoring teams for 8 years now, and this is my 6th year personally involved. We do a lot of events, but seeing the kids' enthusiasm for the marine world, makes this one of our favorites." **Please come see this great event in action either day to support youth interested in the marine industry!**



## Final Thought

Strain gauge alignment on shafts measures the vertical and horizontal forces on the



bearings in a driveline. Strain gauges are placed on the shaft,

which is then rotated in order to measure the load on the bearings. The measurements from the gauges give the bending strain of the shaft at a given location. Formulas for force and moment of equilibrium are utilized to relate the bearing reactions to the bending strain, whereas the bearing offsets for proper alignment can be calculated. Seems simple enough, but if it was, a lot more companies would offer this highly technical and precise service. This form of alignment saves time and money because it can be done in the water without disassembling equipment. Want to learn more? Email us at [Info@AMESolutions.com](mailto:Info@AMESolutions.com), or, read our April column, the Engineer's Angle, in the April issue of [The Triton](#).

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Coming up on April 12, AME will be back in New Orleans, where President, Rich Merhige will be presenting on Vibration Sensor Systems & Theory at the **Workboat Maintenance & Repair Show**.

"This year, our conference program again offers a full slate of sessions that cover everything from maintenance contracts and customer service agreements to reducing engine maintenance costs," said Kate-Lyn Knight, Content Coordinator, Workboat Maintenance & Repair Conference & Expo. "It has everything operations and maintenance professionals need to help them keep their fleets in top-notch running shape."



## Marine News

**Eastern Shipbuilding Group**, located in Panama City, Florida, has been calling upon AME for their alignment work for 11 years now. Most recently, they performed z-drive alignments on three tug boats during an extended stay. "The alignment work for my tugs has been quite smooth thus far. Although these tugs have a very simple shafting arrangement, at the end of the day the job has to be done right and all parties satisfied with the results and this has been the case repeatedly with AME," said ESG Project Manager, Patrick D'Isernia. "One of the most important things to us is having a vendor who can make our schedule, even in short notice situations. To date, we have been able to figure out how to make things work and this has been crucial."



## Industrial News

AME's long time government client for water treatment recently commissioned AME to perform **Windrock surveys** one of their pumping stations. "Adding Windrock surveys to our maintenance schedules will allow us to better manage our equipment. We're looking forward to greater efficiency and cost savings for repairs." - Client representative.



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