National Marine Electronics Association
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For Immediate Release

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NMEA POSTS 2018 IBEX EDUCATION AND TRAINING LINEUP

Monday MEI Super Session, Tuesday Connectivity, Wednesday NMEA 2000 Cabling & OneNet

SEVERNA PARK, MD—The National Marine Electronics Association (NMEA) will offer technical sessions at IBEX—the International BoatBuilders' Exhibition & Conference—that detail onboard connectivity, networking options, NMEA 2000® cabling and NMEA OneNet®, the new marine Ethernet standard. Also offered will be a full-day NMEA Basic Marine Electronics Installer training Super Session. The nation's largest boatbuilding equipment trade show will take place Oct. 2-4 at the Tampa Convention Center in Tampa, FL.

The lineup of technical educational seminars at the three-day IBEX event is extensive. More than 50 sessions are scheduled, ranging from advanced marine coatings to 3D printed production tooling. Here's what the NMEA sessions will cover:

Super Session: NMEA Basic Marine Electronics Installer Training
Monday, October 1, 8:00 am-5:00 pm *(NOTE: This session occurs the day before IBEX begins.)*
The Marine Electronics Installer (MEI) curriculum is an introductory course in marine electronics installation that clarifies and defines competent installation practices. It is tailored for installers, product designers, surveyors and others. Included in the course fee are the current NMEA 0400 Installation Standard, instructional materials and lunch.

Topics will cover Ohm's Law, grounds, battery and battery chargers, DC wiring, EMI, coaxial cables, antennas, AIS, marine VHF radios, transducers, radar, heading sensors and NMEA data interfacing. An MEI credential is an indication of a working knowledge of NMEA's 0400 Installation Standard. Course participants demonstrate proficiency by passing an examination designed to measure their understanding of those principles.
Trainer: John Barry, Technical Marine Support, Inc.

Onboard Connectivity and Vessel Networking Options
Tuesday, October 2, 2:00-3:00 pm
Communication options for leisure and commercial vessels to stay connected 24/7 via Wi-Fi, cellular data and satellite along with an in-depth review of onboard multi-source networking best

practices. Also, how IoT (Internet of Things) technologies will continue to impact the connected vessel and connectivity trends emerging from the helm and other ship systems.
Speakers: Jeff Graham, Wave WiFi Inc., Phil Gaynor, Navico

NMEA 2000 Cabling for Boatbuilders
Tuesday, October 2, 4:15-5:00 pm
More boatbuilders are installing NMEA 2000 cabling at the factory level. Learn the cable requirements that comply with the NMEA Installation Standard. Takeaways will include tips and tricks along with cable length limitations, cable types, where to install power insertion points, drop cable limitations and termination resistors. Includes hands-on instruction by a NMEA Certified Marine Electronics Technician (CMET) on how to properly install field-attachable NMEA 2000 connectors.
Speaker: John Barry, Technical Marine Support, Inc.

NMEA OneNet: The Marine Ethernet Standard
Wednesday, October 3, 2:00-3:00 pm
Internet-based functions are becoming increasingly popular on vessels and many electronics manufacturers are using Ethernet. NMEA will soon release its new OneNet standard, which is based on Internet Protocol Version 6 (IPv6) and Ethernet IEEE 802.3. OneNet has 11 interconnected modules and addresses cybersecurity via robust security modules containing message authentication, encryption and certification verification. Other modules to be discussed include Physical Layer, Device Discovery and PGN Transport and Gateways.
Speaker: Steve Spitzer, NMEA Director of Standards

To see the full IBEX schedule along with pricing information, and to register for any of the NMEA IBEX sessions, visit www.ibexshow.com.