

AEA Member Profile

staco S30

Lexavia's EVS Helps Pilots SEE B E E E E

 Making the Most of Your Shop's Website

 The View from Washington: Show Me The Regulations

 Portable Powerhouses, VHF to GPS

STACO SYSTEMS

AEA Member Rolls Out New Light Plates, Switches

AVIONICS FEBRUARY 2013 N E W S

Vol. 50 No. 2

- 4 Point of Communication by Gary Harpster Share Your Passion for Aviation
- 6 AEA Now
- 14 The View From Washington by Ric Peri Show Me The Regulations
- 16 International News and Regulatory Updates by Ric Peri
- 20 Portable Powerhouses, VHF to GPS by Dave Higdon Big Things Come in Small Packages
- 24 Member Profile by Christine Knauer Lexavia Integrated Systems of Gulf Breeze, Fla.
- 28 Wires, Cables & Connectors by Scott M. Spangler Evolving to Meet New Needs but Still Seeking Respect
- 34 Avionics News Through the Years by Avionics News Staff
- 36 The Place To Be by Geoff Hill AEA's New Product Introductions Become a Can't-Miss Event for Avionics Professionals

>>

42 A Conversation With... by Patricia Luebke Mike Sutphin of Avionics International Supply Inc.

- And the rest of th
- 44 Member Profile by Christine Knauer Staco Systems of Irvine, Calif.
- 48 AEAviators by Jenna Kramer Jerry Knight of Ahlers Aerospace Inc.
- 50 Develop Your Best Salesperson by Patricia Luebke Making the Most of Your Shop's Website
- 54 Business Basics by Greg Laslo The Toughest Job: How to Break Bad News to Employees and Customers
 - **Trailblazer** by Thomas Inman Carla Flor Forges Pathway for More Women in Aviation

58

70

72

- 66 What's New The Source for Updates on AEA Members
 - Marketplace Classifieds Jobs, Equipment, Calibration, Services & More
 - Before & After Tech Aero Avionics of Denton, Texas







www.avionicsnews.net

Bad weather, low visibility, construction, airport unfamiliarity, fatigue, distractions and miscommunication with air traffic control make seeing and avoiding hazards challenging. Pilots need all the help they can get, and Lexavia Integrated Systems of Gulf Breeze, Fla., has a solution. Read more on page 24.

> AVIONICS NEWS is a monthly publication of the Aircraft Electronics Association®

EDITORIAL & EXECUTIVE OFFICES: 3570 NE Ralph Powell Road Lee's Summit, MO 64064 Phone: 816-347-8400 Fax: 816-347-8400 Email: avionicsnews@aea.net Website: www.avionicsnews.net

Publisher Paula R. Derks

Editor Geoff Hill

Managing Editor Jeff Kirchhoff

Copy Editor Jenna Kramer

Advertising Linda Adams Lauren McFarland

Circulation Manager Jenna Kramer

Senior Writers Ric Peri Jason Dickstein

Contributing Writers Joseph E. (Jeb) Burnside Dave Higdon James A. Hunter Thomas Inman Christine Knauer Greg Laslo Patricia Luebke John D. Ruley Dale Smith Scott M. Spangler

Published monthly by the Aircraft Electronics Association[®] (ISSN 0567-2889). Periodicals postage paid at Lee's Summit, MO and additional mailing offices. Advertising rates furnished upon request. For subscription information, send name and complete mailing address to: AVIONICS NEWS 3570 NE Ralph Powell Road Lee's Summit, MO 64064

POSTMASTER: Send address changes to AVIONICS NEWS, 3570 NE Ralph Powell Road, Lee's Summit, MO 64064. The publishers and editors of this magazine do not accept responsibility for statements made by advertisers herein or for the opinions expressed by authors of bylined articles. Materials may not be reproduced without written permission. Material for *Avionics News* (USPS 452011) is welcome for review; however, the editors assumes no responsibility for the return or safety of artwork, photographs or manuscripts. Articles submitted for publication become the property of the AEA. Articles submitted by AEA contractors are considered work-for-hire and, as such, are the property of the AEA. *Avionics News* and its editors reserve the right to edit all articles for length, clarity and content. © 2013 Aircraft Electronics Association • All rights reserved. **PRINTED IN THE USA**.

AIRCRAFT ELECTRONICS

ASSOCIATION



COMPANY ADDRESS: 7 Morgan Irvine, CA 92618

Staco Systems Rolls Out New Light Plates, Switches

STORY BY CHRISTINE KNAUER

s Staco Systems of Irvine, Calif., kicks off its 55th year in business, it continues to innovate bright solutions for aviation, military and industrial applications. In February, the company, which specializes in switches, keyboards and sub-systems, is introducing a new type of light plate.

Recently patented, the night vision-compatible, nextgeneration light plate resists scratching, chipping, and wear and tear common with painted light plate surfaces, solving the issue of illegible legends and light leakage.

Traditional light plates use embedded lights under a clear

plastic sheet covered with two layers of

paint, typically a white base layer and an opaque surface color coat. In the dark, the lights underneath, which can be incandescent lamps, electroluminescent panels or light emitting diodes, illuminate the panel markings engraved or lasered through the color coat to the white base layer.

"Staco Systems' new patented manufacturing process

improves both the optics and the wear resistance of the panel," said Bruce Gray, president of Staco Systems. "It can't be scratched to expose light. We back that with a lifetime warranty."

Next month, the company plans to roll out its Series

300 Half Switch, the smallest twopole illuminated switch on the market, according to Gray. The S300 evolves the company's Series 200 Ultra-Compact (it measures less than 1 inch), four-pole LED switch that was introduced a year ago. The Ultra-Compact Half

Switch provides a two-pole switch in

a small form factor, offers long-life durability of 1 million cycles and is NVIS compatible.

Staco Systems' switches are used in a variety of applications, including commercial aircraft, military tanks, ground vehicles and aircraft, naval systems, launch controls, submarine controls, specialty vehicles, and industrial equipment and control systems. WEBSITE: www.stacosystems.com

EMAIL: sales@stacosystems.com

FACILITIES: 42,000 square feet

WHAT THEY DO:

Staco Systems designs and manufactures switches, keyboards and sub-systems for aerospace, defense and industrial applications.

EMPLOYEES: 65

FOUNDED: 1958

AEA MEMBER SINCE: 2012



ABOVE: Production supervisor Lucina Hernandez handles the final assembly of a customer's sub-systems product. OPPOSITE PAGE: Staco Systems launches its new Series 300 Half Switch in March.

In addition to its new light plate and a line of lighted pushbutton switches, Staco Systems designs and manufactures ruggedized keyboards and keypads, as well as sub-systems engineered and built to customers' specifications.

"We tend to concentrate on product applications that are technically demanding or subject to very harsh environmental conditions," Gray said.

55 Years of Experience

In 1958, the company began as Staco Switch, manufacturing lighted pushbutton switches for aircraft.

Staco's small manufacturing and assembly team created the first Series 30 switch, which was used in a Fokker F-27 in 1960. In 2006, the company expanded into sub-systems and ruggedized keyboards, gaining customers in more markets and more industries worldwide.

Today, Staco Systems' engineering, testing, manufacturing, quality control and sales teams share space under one roof at the company's California headquarters and maintain sales representatives in more than 35 countries, enabling better customer service.

Continued on following page



LEFT: Assembly technician Loc Bui performs final assembly testing on a custom rugged keyboard.

BELOW: In February, Staco Systems introduced its next-generation, wearresistant light plate.

BOTTOM LEFT: Staco Systems designed this Laser Arming Control Panel from the ground up for a customer. The subsystem controls moving map displays and a high-resolution imagery recorder system used for surveillance and targeting in defense/military, airborne law enforcement, and rescue aircraft.

MODE

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"In 2006, we began an aggressive campaign to expand our patent portfolio in the areas of lighting and miniaturization," Gray said. "We have become particularly adept at finding product niches within the aerospace industry that can benefit from the application of newer technologies."

For customers who need it, Staco's engineering department offers full development resources for complex electro-mechanical sub-assemblies, including design engineering, prototyping and design-test services.

"Our sub-assemblies are custom-designed or build-





to-print for a multitude of customer applications and environments," Gray said. "They range from pilot-operated accessory control panels in a laptop docking station for production of commercial jetliners to an environmental control systems management panel for Medivac helicopters, a ruggedized bridge propulsion engine control modules for naval ships and multiple sub-systems that are integrated into complex surveillance and weaponry systems for the airborne military."

The company's products meet strict industry, military and supplier standards and certifications, including AS9100, DO-160 and military specifications.

As Staco Systems celebrates 55 years in business, the company continues to press forward, bringing new technology to the cockpit of today's aircraft, tanks, submarines and ground vehicles.

"We continue to invest in new technology development, particularly in the areas of optics, weight reduction and miniaturization," Gray said. "Many categories of aerospace products have been bypassed by technical advances in the fields of optics and material sciences; this represents an area of major opportunity and future investment for us."