



SAFE ECC NEWSLETTER

Volume 1, Issue 2

LIGHTNING TESTING – A STRIKING DIFFERENCE AT DAYTON T. BROWN, INCORPORATED

By Joel Albinowski

DTB Adds DO-160 Lightning Simulation Testing to its List of EMI/EMC Services

Dec 2007 - When lightning strikes, everyone needs to be confident that important systems will not be damaged. This is especially critical in the Aerospace and Military arenas, where there is a constant need to qualify systems that may be exposed to the indirect induced effects of a lightning strike, and must be tested to demonstrate

the ability to function properly under such difficult conditions. To ensure that manufacturers meet necessary lightning requirements, Dayton T. Brown, Inc. now offers state-of-the-art lightning testing services. This system is capable of generating a wide range of single stroke, multi-stroke and multi-burst waveforms as required by the latest national and international aviation test standards. Our NARTE certified engineers and technicians can test electrical systems or their component parts for damage tolerance from the transients created when struck by lightning. our Indirect Light-

ning Effects testing capabilities include testing in compliance requirements with RTCA/DO-160E, Section 22, Multiple burst / multiple stroke with lightning per SAE ARP5412, EUROCAE/ED-14E, FAA AC:20-136, SAE AE4L, MIL-STD-1757 and testing for specific Boeing and Airbus.

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Inside this issue:	
Streamer Evaluation	2
DTB's Claim to Fame	2
Committee Reports, Old and New Business	3
Current ECC Board Members	4

SURVIVAL SWIM TRAINING PROGRAM STARTING AT FORT RUCKER

By Karen Roberts (USN Retired)

Starting March 2008 - In preparation for the Army's Helicopter Overwater Survival Training (HOST)/dunker, Lear Siegler Services Inc. will be conducting a long awaited Elementary Swim Training Program in support of Initial Entry Rotary Wing (IERW) pilot

training. The training will be located on Fort Rucker utilizing the MWR pool, Monday-Friday from 0700 to 0900 and 1300 to 1600. This program consists of water survival skills such as: breaststroke, treading water, hanging float, and a 15 yard underwater swim.

Students who are unable to perform these skills will be provided with remedial training from qualified Water Survival Instructors.

- ### **Special points of interest:**
- New Initial Survival Swim Training Program for the Army.
 - Dummy to appear on Discovery Channel
 - Rescue Streamers to be evaluated by USN
 - Host for the ECC Spring Meeting
 - ECC Member passes away

RESCUE TECHNOLOGY CORPORATIONS'

Rescue Streamer To Be Evaluated by U.S. Navy

Kirk Neprud of Rescue Technologies Corporation (RTC), is a retired U. S. Coast Guard Chief Warrant Officer. He performed duties as a deck seaman, Lockheed C-130 Loadmaster, Dassault Falcon 20 Dropmaster, helicopter rescue swimmer, emergency medical technician and headquarters staff level rescue and survival systems program manager. It is no wonder he cares so much about developing the right equipment to fit the real world needs of the military. RTC works very close with their customers to design equipment to meet or exceed expectations. Recently they designed an 11" x 40' Self Deploying Infrared Streamer (SDIRS) signaling device for the US Air Force. It will be installed in the ACES II ejection seat life raft inflation bottle sleeve with a quick attach lanyard and 2 attached amber LED light tubes that provide water soluble activation.

The SDIRS is designed to; deploy automatically



upon water immersion and has a rain resistant fabric with closure ties to ensure it does not deploy during rainstorms, and provides day/night search and rescue at 1.3 nautical miles at 1500 feet.

In November of 2007, Kirk sent the SAR-6-MIL and 11-Mil Rescue Streamers to Lear Siegler Services Inc. (LSI) at Fort Rucker. Briefs were provided for the HOST Instructors to train the students on proper use. The streamers were evaluated during the water survival raft training by initial/refresher aircrew students and staff. Everyone was impressed with its design and capabilities, so much so that when Kirk asked if there was a way he could meet with the Naval Survival Training Institute Water Survival in Pensacola, LSIs' Director of Training called Mr. Ray Smith, Command Diving Officer, to set it up. In December of 2008, the meeting took place and it was decided that a test to compare the Rescue Streamer

“U.S. Navy to evaluate the Rescue Streamer”

with other devices for day and night should be done. The test will be conducted in the Pensacola Bay sometime in early 2008, DTD. Participants will include; the USCG from Mobile, Pensacola's Air Force Water Survival Instructors and LSI's Director of Training and Chief Instructor as test subjects (dummies). It should prove to be very interesting and quite cold too.

Also in November of 2007 an evaluation of different anti-exposure suits and body armor was performed by the Fort Rucker HOST staff to see if the flight equipment could be incorporated into water survival dunker training without to high of a safety risk. The results were very favorable and a change has been submitted to incorporate the Mustang Survivals MSF300 (with and without the liner), Switlick's U-Zip-It, Aerostars' OTS Dry Under Suit and Air Warriors' Woodland Flex Body Armor with Ballistic Upgrade Plates.

You can rest assured the test subjects working with the rescue streamer will be wearing one most definitely to **STAY WARM**.

DTB's Claim to Fame with Discovery Channel's Hit Show - Mythbusters!

Jan 2008: When DTB says that we can help anyone with their engineering & testing needs, we mean it! In this spirit, the Test Lab donated one of our test dummies to the show, in order to replace their current dummy, Buster. The official unveiling of the new Buster will take place on **Wednesday, Feb 13th**, so remember to tune in for that. We hear that our Buster gives an award-worthy performance! That doesn't surprise us, we think all DTB employees are superstars! For those of you who may not be familiar with Mythbusters, it is a very popular show on the Discovery



Handsome Isn't He

Channel, starring; special effects experts Adam Savage and Jamie Hyneman. They use their extensive engineering and construction skills to test the validity of various rumors and urban legends in popular culture. Buster is a crash test dummy used in the show's more dangerous myth tests and was falling apart after so many seasons on the air. So we cleaned up one of our own test dummies, dressed him up in monogrammed coveralls and tucked him safely into a special crate emblazoned with our logo and sent him off to the Discovery Channel headquarters.

Rememberance:

Fred Patten, 96, designer of inflatable life rafts passed away 16 January 2008

By Tony Doris, Palm Beach Post Staff Writer

When George H.W. Bush was shot down over the Pacific in 1944, a raft designed by Fred Patten saved his life. President to be Bush was one of countless military men and civilians who benefited from the work of Mr. Patten, a Palm Beach gardens resident who died Wednesday at the age of 96. Mr. Patten, a lieutenant in the Navy, pioneered the inflatable life rafts for use by the Army, Air Force and Navy's Bureau of Aeronautics.

In 1939, he created the Patten Company, still headquartered in Lake Worth, Florida, which was considered the premier provider of inflatable products for the aviation, aerospace and defense industries, including NASA. According to the company, Mr. Patten began this work after losing his brother (Robert) in a 1934 plane crash. Robert Patten was a 1930 graduate of the Naval Academy. Fred Patten was also the initial project engineer for developing the inflatable decoy deception force deployed to confuse the Germans before and during the D-Day invasion. The inflated decoys ranged from full-scale landing craft to troop carriers, tanks and B-26 bombers. The company he founded is today owned by his sons Robert and Stephen Patten.

In addition to his sons, survivors include his wife, Joan Patten; two grandchildren; and two great-grand children. A private memorial service will be held at a later date. Funeral Services will be private in Arlington National Cemetery.

Committee Reports

● **Membership Dues:**

A members list was sent out to all of you on 22 Jan 08 by Greg Yerkes with up-dates on emails & members who need to renew in **RED** font. Please send renewals to Larry Farmer (Treasurer). His email is: lefsys@aol.com

● **Fleet Maintainers Conference/IMP:**

Scheduled for 7-10 April 2008 in Jacksonville, FL

Old Business: NONE

New Business:



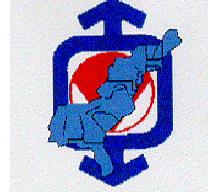
***To Host Spring Meeting
in Annapolis, MD***

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Happy New Year Everyone

“Hope this year is joyous and prosperous for you all.”

“Don't forget to pay your Membership Dues.”