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Upcoming Tradeshows

COMMUNICASIA

When: 16-19 June
Where: Singapore

ETTC (EUROPEAN TEST & TELEMETRY CONFERENCE)

When: 24-26 June
Where: Toulouse, France

AUVSI UNMANNED SYSTEMS

When: 10-13 August
Where: Washington, DC

SMALL SATELLITE EXPO

When: 10-13 August
Where: Logan, UT

AFA (AIR FORCE ASSOC.)

When: 15-17 Sept
Where: Washington, DC

FOCUS - JUNE 2009

Published for customers of L-3 Telemetry & RF Products.

Send feedback to:
Focus.TW@L-3Com.com

L-3 SOUTHERN CALIFORNIA MICROWAVE

L-3 SCM EXPANDS BUSINESS IN MORE WAYS THAN ONE

Over the past 3 years, L-3 Southern California Microwave (L-3 SCM) has experienced exciting growth in many aspects of their business including number of employees, facility space and orders.

L-3 SCM has gone from 26 to 40 employees in the past years which is a direct result of high demand from returning happy customers.

Additionally, L-3 SCM expanded their facility from 8,000 sq ft to 13,000 sq ft. Before adding additional space, there was only room for 35 employees. The prospect of potential growth made the facility expansion a challenge they gladly accepted.

With the added personnel and space L-3 SCM has the ability to continue to renovate older space in the facility without significant disruption to their day to day operations.

L-3 SCM is located in Spring Valley, CA.



SMALL UAV Solutions



NEW PRODUCT— QUAD-BAND RVRT (REMOTE VIDEO RECEIVE TERMINAL)

L-3 Southern California Microwave (L-3 SCM) will soon be releasing its latest innovation in Remote Video Receive Terminals (RVRT). The new **Quad-Band RVRT** provides viewing access to the Analog Video Downlinks from UAVs, UGVs, Targeting Pods, and Remote Sensors operating in any of the four major operating frequency bands; L-Band, S-Band, and Upper/Lower C-Bands.

Covering all four frequency bands ensures troops are able to access video surveillance from any asset in proximity to their location making the unit indispensable for gathering pre-engagement intelligence.

The **Quad-Band RVRT** is lightweight (<6lbs), portable, and rugged. An intuitive User Interface quickly enables the display of the video feed on a daylight readable screen.

Control functions allow the user to either automatically scan and detect valid video feeds, select from 10 user-programmable presets per band of operation, or directly set the desired operating frequency through a front panel keypad. The video can also be output to a remote display or recorder if desired. The unit will operate on internal batteries for up to 8 hours or can be plugged into an external +12 V supply, such as a BA5590 Battery or a HUMVEE.

L-3 SCM's lightweight, portable RVRT technology gives the Warfighter Lifesaving Vision!

KEY FEATURES

- Quad-band Video Receiver (L, S & Lower/Upper C-Bands)**
- Automatic Signal Scan, Detect & Lock on Valid Video Feeds**
- Keypad Entry to Set Operating Frequency Channel**
- Received Signal Strength Indication**
- Compact and Rugged, Weighs <6 pounds**



Model of the Quad Band—RVRT

Q&A WITH L-3 SOUTHERN CALIFORNIA MICROWAVE

WE ASKED STEVE PATTEN, GM OF SOUTHERN CALIFORNIA MICROWAVE SOME PERTINENT QUESTIONS...

L-3 Southern California Microwave (L-3 SCM) is led by **Steve Patten** who has been General Manager since 2002. Mr. Patten reflects on the current and future state of the Unmanned Aerial Vehicle (UAV) industry and L-3 SCM's position and technology base.

Question: As the movement in the warfighter/UAV community continues its migration toward digital/advanced waveforms, what is L-3 SCM doing to prepare for upcoming customer needs?

Answer: We have one new product in the market and are winding down the IR&D planning on another. The DMS (Digital Modem Solution) has been out for a year and we just received the first significant order late last year. This product can encode (digitize) several data streams (video, high/low speed data) and provide that stream to our existing analog transmitters/receivers for transmission and then decode the stream on the other end.

The next development planned is a variant of the above system that will replace the existing analog FM transmitter/receiver with an SOQPSK transmitter/receiver. This will allow for more efficient use of bandwidth while letting our customers transmit more channels in less space.

Question: What do you see as the cornerstone to maintaining your competitive advantage and market position as the preeminent supplier of data communications for the small UAV market?

Answer: L-3 SCM has thrived by being responsive to our customers' needs. Maintaining these customer relationships is particularly important now as our customers look to make the transition to digital and more spectrally efficient waveforms.

Question: Finally, what are the biggest changes coming for L-3 SCM over the next 2 - 3 years?

Answer: The two biggest changes in the near future are an ISO certification and initiating a formal ESD program. We are working towards the ISO certification now with a goal of being certified in the 4th quarter of 2009. We will roll out the ESD program within the next months. These two initiatives are driven by customer demand, which we look forward to executing throughout 2009.



Steve Patten
General Manager
L-3 Communications
Southern California Microwave

NEW LOOK FOR L-3 TELEMETRY & RF PRODUCTS GROUP WEBSITE

WWW.L-3COM.COM IMPROVES YOUR TELEMETRY CONNECTION

The L-3 Telemetry & RF Products (L-3 T&RF) Group Web site now has a new look and feel providing a gateway to each of the five separate L-3 divisions that make up the group. This includes Advanced Technology & Systems, Southern California Microwave, Telemetry-East/Global Network Solutions and Telemetry-West.

This new site contains more content, improved layout and navigation and access to the L-3 Corporate website. The new structure allows us to expand and extend the functionality and content of the site in a way that imitates our core business structure.

"It's great because it's a one-stop shop for our customers while saving them time in searching for what they're looking for, even if their solution is made up of multiple products across our different divisions within the group." says James Yates, Strategic Business Development Director for L-3 Telemetry & RF Products Group.

Check out the new site at www.L-3Com.com/Telemetry.



**L-3 Telemetry & RF Products Group
Home Page**

Excellence You Can Measure

Airborne Telemetry Solutions



**Intellibus
Hardware**

PRODUCT UPDATE—INTELLIBUS FLIES!

In 2007, L-3 Communications Telemetry-East (L-3 TE) was awarded a contract by Boeing Integrated Defense Systems to provide a variety of IntelliBus™ hardware in support of the U.S. Navy's P-8A Poseidon flight test program. This hardware is being integrated into the flight test instrumentation system to verify aircraft performance. L-3 TE has delivered over 1,800 IntelliBus modules under the contract to date.

Source: www.L-3Com.com/TE

BOEING P-8A POSEIDON SUCCESSFULLY COMPLETES 1ST FLIGHT

SEATTLE, April 27, 2009 – Boeing [NYSE: BA] P-8A Poseidon test aircraft T-1 successfully completed its first flight April 25, taking off from Renton Field at 10:43 a.m. and touching down at Boeing Field in Seattle at 2:14 p.m. The P-8A performed a series of flight checks, reached a maximum altitude of 25,000 feet, and landed after three hours, 31 minutes in the air.

The P-8A Poseidon is a long-range anti-submarine warfare, anti-surface warfare, intelligence, surveillance and reconnaissance (ISR) aircraft. It possesses an advanced mission system for maximum interoperability in battle space.

Capable of broad-area, maritime and littoral operations, the P-8A Poseidon is expected to influence how the U.S. Navy's maritime patrol and reconnaissance forces train, operate and deploy. The U.S. Navy plans to purchase 108 Poseidons to replace its fleet of P-3 aircraft, with the first flight test aircraft delivery scheduled for 2009.

Source: Boeing



**P-8A Poseidon Aircraft During
Successful 1st Flight**
Source: Boeing

L-3 TELEMETRY & RF PRODUCTS IN THE NEWS

L-3 TELEMETRY-EAST AND COSWORTH ESTABLISH AEROSPACE MARKET AGREEMENT

BRISTOL, PA, June 1, 2009 – L-3 Telemetry-East (L-3 TE), a division of L-3 Communications, announced today that it has finalized an agreement with Cosworth Electronics to repurpose its electronic telemetry and control technology systems for the North American aerospace and defense markets. The company will use systems originally intended for Cosworth's motorsports activities to offer advanced data collection and system control technology for use in Unmanned Aerial Vehicle/Unmanned Aerial System (UAV/UAS) platforms.

"The same devices that monitor engine health, control gearboxes and power fuel pumps in performance cars are ideally suited to similar functions in UAV/UAS platforms," said Marc Lienard, president of L-3 TE. "We plan to take advantage of Cosworth's substantial investment in this leading-edge technology and offer its high performance, lightweight, low-power consumption and functional adaptability into the equally demanding aerospace field."

"We cannot imagine a better partner in the North American aerospace market than L-3," said Cosworth Group chief executive Tim Routsis. "We have found that airframers, system integrators and flight training organizations are intently interested in this equipment's ability to monitor air vehicle subsystems and autonomously make real-time adjustments – particularly in smaller and lighter aircraft like UAVs. The addition of L-3 TE's domain knowledge, end-customer presence and support structure provides the best opportunity to make use of these capabilities among the aerospace and defense customer base."

As a result of the Cosworth agreement, L-3 TE is now offering a variety of Cosworth-developed electronic technologies in the North American aerospace market under the L-3 label. The equipment is supported by L-3's customer service department and backed by Cosworth's experienced field engineering activity.

Cosworth Electronics, a division of the Northampton, U.K.-based Cosworth Group, develops and delivers high performance solutions across a number of markets including aerospace & defense, marine, mainstream automotive and in major racing series including Formula One and IRL. Cosworth can be found on the internet at www.cosworth.com.

Ground Telemetry Solutions

L-3 TELEMETRY-WEST SUPPORTS THE JOINT ADVANCED MISSILE INSTRUMENTATION (JAMI) PROGRAM

L-3 Communications Telemetry West's (L-3 TW) Visual Test System (VTS) now supports the processing of the Joint Advanced Missile Instrumentation (JAMI) program unique data streams.

This new additional processing capability on what is the 'telemetry communities largest selling PC based processing system' was quickly developed to support a badly needed capability in supporting the JAMI Data Processor (JDP) at a specific customer site.

JAMI is a multi-year Central Test Evaluation Improvement Program (CTEIP) designed to develop and approve components and subsystems that support a wide variety of Range upgrades.

L-3 TW's VTS, along with the use of the VTS Software Development Kit (SDK), is used to decommutate the PCM Telemetry Stream and extract data values, from the decommutated stream, from one or more parameters relating to the GPS data to be sent to the JDP. These data values are then wrapped into a 2064 JAMI formatted message and sent to the JDP across the Ethernet via UDP Multi-Cast.



Background – In 2001 the Department of Defense (DoD) wanted to know if technology is available to develop, perform qualification testing, and implement the requirements of a GPS-based sensor package.

The JAMI Program has been established to address the weapon system instrumentation requirements for telemetry, time-space-position information (TSPI), end-game scoring, and flight termination for Army, Navy, and Air Force test ranges. The purpose of JAMI is to use GPS data to its fullest in order to utilize worldwide test and training ranges.

ON-GOING PROGRAMS WITH OUR PRODUCTS ONBOARD

ORBITAL SUCCESSFULLY LAUNCHES MINOTAUR I ROCKET CARRYING TACSAT-3 SATELLITE FOR U.S. AIR FORCE

Dulles, VA May 19, 2009 – Orbital Sciences Corporation (NYSE: ORB) announced today that its Minotaur I rocket successfully launched the Tactical Satellite-3 (TacSat-3) for the U.S. Air Force. The mission originated from the Mid-Atlantic Regional Spaceport (MARS) launch facility at NASA's Wallops Flight Facility on Wallops Island, VA. At approximately 7:55 p.m. (Eastern), the rocket's first stage ignited, beginning its flight into low-Earth orbit. Approximately 12 minutes later, the Minotaur I deployed the TacSat-3 spacecraft in its targeted orbit of approximately 285 miles above the Earth's surface.



TacSat-3 Launch

Today's mission was the 16th mission for the Minotaur program since its inception in 2000, all of which have been fully successful. It was also the third Minotaur I launch from the MARS facility, following the TacSat-2 and NFIRE missions conducted from the Eastern Virginia launch site in 2006 and 2007, respectively.

"We are very pleased with the results of this evening's flight of the Minotaur I rocket, and are proud to be able to support the Air Force's important work in the area of Operationally Responsive Space (ORS) systems," said Mr. Ron Grabe, Orbital's Executive Vice President and General Manager of its Launch Systems Group."

The TacSat-3 spacecraft is designed to meet the growing need of U.S. forces for flexible, affordable and responsive satellite systems. The program is a joint effort of the Air Force Research Laboratory's Space Vehicles Directorate, Army Space and Missile Defense Command, Air Force Space and Missile Systems Center's (SMC) Space Development and Test Wing, the Department of Defense's ORS office, and the Office of Naval Research.

Source: Orbital Sciences, Corp. **Photo:** Orbital Sciences, Corp.

L-3 Telemetry-West provided a CXS-810 TT&C Transponder.

RECENT ACTIVITIES

L-3 TELEMETRY-EAST/WEST/SCM HOLD ANNUAL REP MEETING IN BRISTOL, PA

Bristol, PA May 5, 2009 – On May 5, 2009, for the second year in a row, our manufacturer's representatives, sales, marketing and business development teams gathered at the L-3 Telemetry-East facility in Bristol to conduct market and product briefings for most of our major product lines. Trained by leaders from each of the major product areas and our customer support teams, nine sessions were run concurrently throughout the entire day.

Conducting the event in a small workshop style allowed the attendees to dive deeply into the specifics necessary to, present, demonstrate, brief, quote and propose our products to prospective customers.

The small class sizes helped foster plenty of open communications both to and from our representatives. A multitude of subjects were covered, including product line road maps, industry trends, regulatory issues (export, ITAR, encryption), organizational changes, new literature, updated presentation material and the overall status of ongoing program activities.

We received plenty of positive feedback from all the attendees and look forward to next year's meeting.



Glenn Flaherty Kicks Off Meeting



NEW REP ANNOUNCEMENT

Effective June 22nd , 2009

Southern Marketing Associates (SMA) joins the L-3 Telemetry & RF Products Group Rep force covering the Southeast United States.

Founded in 1987, Southern Marketing Associates has 12 Sales Engineers covering the states of Florida, Georgia, Alabama, Mississippi, Tennessee, North and South Carolina.

SMA strives to maintain the technical, political and logistical expertise that allows the customer to view SMA as a valuable resource to their company.

Welcome aboard SMA!

L-3 TELEMETRY-EAST/GLOBAL NETWORK SOLUTIONS RECEIVES VISIT FROM CONGRESSMAN PATRICK MURPHY

Bristol, PA, April 13, 2009 – Congressman Patrick Murphy of Pennsylvania's 8th district visited L-3 Telemetry-East/Global Network Solutions for a company presentation, facility tour, and a brief address to employees followed by a Q&A session.

As a member of the Armed Services Committee and the Permanent Select Committee for Intelligence, Congressman Murphy plays a key role in the oversight of military spending. Congressman Murphy shared his background as a war veteran and expressed his gratitude to all L-3 TE/GNS employees for critical products in support of the war-fighters' efforts in protecting our nation.



**Congressman Patrick Murphy (left),
Marc Lienard (TE/GNS President) and
Kevin Foss (TE/GNS Director of
Operations)**



**Marc Lienard Introduces
Congressman Murphy**

RECENT ACTIVITIES CON'T

L-3 TELEMETRY-WEST CONDUCTS LEAN AND SIX SIGMA COMPANY WIDE TRAINING

San Diego, CA June 8, 2009 – L-3 Telemetry-West (L-3 TW) kicks-off Lean and Six Sigma business management strategy training in an effort to reduce costs and improve productivity. The company wide training focuses on two elements: *Lean* and *Six Sigma*.

Lean uses a toolset that is focused on streamlining process flows, reducing cycle times and eliminating waste. *Six Sigma* is based upon the DMAIC (Define, Measure, Analyze, Improve, Control) framework and focuses on the use of data to analyze processes, identify process improvement opportunities, and find areas where process variation can be reduced.

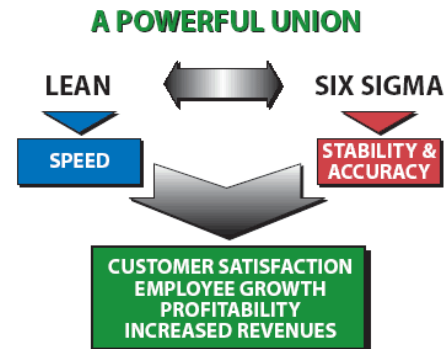
L-3 TW has completed Executive and Champion training and are currently training over 25 greenbelts (managers) representing Engineering, Manufacturing Engineering, Test Engineering, Supply Chain, Operations, Finance, Business Development and Program Management.

Each of the greenbelts is assigned to one of seven projects focused on improving processes that span our business from forecasting, reflow processing, product returns process etc.

“Our customers are extremely excited we are beginning this process and several managers and executives from Lockheed Martin participated in the kickoff of the first training session.” says Andy Hamelynck, Vice President of Mission Assurance for L-3 TW.

Each of the projects has specific goals focused on reducing cycle times and costs while improving quality by reducing/eliminating defects.

Training sessions will be completed in the summer of 2009.



COLORADO'S LT. GOVERNOR, BARBARA O'BRIEN VISITS THE L-3 BOOTH AT THIS YEAR'S NATIONAL SPACE SYMPOSIUM

Colorado Springs, CO, March 31, 2009 – L-3 Telemetry-West (L-3 TW) welcomed Barbara O'Brien the Lt. Governor of Colorado to the L-3 booth at this year's National Space Symposium that took place in Colorado Springs, CO March 30 – April 2.

The Lt. Governor is co-chair of the Colorado Space Coalition, a group of business, government and military representatives that support and promote Colorado's aerospace industry. The Lt. Governor also actively promotes Science, Technology, Engineering and Math education to ensure Colorado's next generation of aerospace workers.

Lt. Governor O'Brien attended the Symposium for just one day and met with about a half dozen aerospace industry companies who have/are building a presence in Colorado. She was accompanied by representatives from Colorado's Office of Economic Development and International Trade, the Colorado Space Coalition, and the Metro Denver Economic Development Corporation.

The meeting acknowledged L-3's support to the Colorado Space Industry and Lt. Governor O'Brien presented a plaque for this recognition.

Glenn Flaherty, VP Business Development for L-3 Telemetry & RF Products Group stated, L-3 is pleased to do business in Colorado, support our military and commercial customers based here, and participate in the National Space Symposium that brings it all together.“

L-3 Telemetry & RF Products Group has an office in Aurora, Co which does software/algorithm development for US Government, NASA, and commercial space programs.



Glenn Flaherty, Colorado's Lt. Governor, Barbara O'Brien, Patrick Ryan and Paul Blanchard



Telemetry & RF Products

Today, L-3 Telemetry & RF Products serves commercial, military and civilian customers worldwide with a product offering that includes TT&C satellite transponders, high data rate satellite transmitters, high-power amplifiers, high-reliability receivers/transmitters, encryption/decryption units, video compression/decompression units, tactical intelligence/tactical HF/SSB microwave radios, telemetry ground system components and solutions, specialized telemetry and surveillance products, telecommunications products and specialized networks, and advanced technologies in SIGNIT, SEI, and Geolocation.

L-3 Telemetry & RF Products Group is made up of the following divisions:

ADVANCED TECHNOLOGY & SYSTEMS

SOUTHERN CALIFORNIA MICROWAVE

TELEMETRY-EAST/GLOBAL NETWORK SOLUTIONS

TELEMETRY-WEST



L-3 Advanced Technology & Systems

355 Ravendale Drive | Mountain View, CA 94043

Phone: 650-961-9400 | Website: www.L-3Com.com/ATS

L-3 Advanced Technology & Systems is a provider of SIGINT Systems Engineering, Specific Emitter Identification, Novel Geolocation Techniques, RF Polarimeter Processing, Technical Studies & Analyses, Software Development, and Rapid Prototyping.



L-3 Southern California Microwave

2732 Via Orange Way, Suite E | Spring Valley, CA 91978

Phone: 619-670-3414 | Website: www.L-3Com.com/SCM

L-3 Southern California Microwave is a leading manufacturer of microwave transmitters, receivers, power amplifiers, repeaters and antennas for military test ranges, UAVs, RPVs, UGVs, robots and law enforcement agencies. Additionally, L-3 SCM provides standard FM PCM telemetry systems.



L-3 Telemetry-East/Global Network Solutions

1519 Grundy's Lane | Bristol, PA 19007

Phone: 267-545-7000 | Website: www.L-3Com.com/TE | www.L-3Com.com/GNS

L-3 Telemetry-East/Global Network Systems is a preeminent supplier of airborne telemetry products and systems for the aircraft and missile flight test, airborne telemetry and ground receiver markets. Additionally, L-3 TE/GNS is a worldwide supplier and integrator of quality telecommunications products and end-to-end communications solutions.



L-3 Telemetry-West

9020 Balboa Ave | San Diego, CA 92123

Phone: 858-694-7500 | Website: www.L-3Com.com/TW

L-3 Telemetry-West is a premier provider of tailored flight hardware and systems solutions for missile, UAV and spacecraft telemetry, tracking and control (TT&C); software & HPAs for satellite command & control; COTS telemetry ground system solutions; tactical intelligence receivers; and terrestrial HF and microwave radios.

How do we measure up? www.L-3Com.com/TW/VOC