

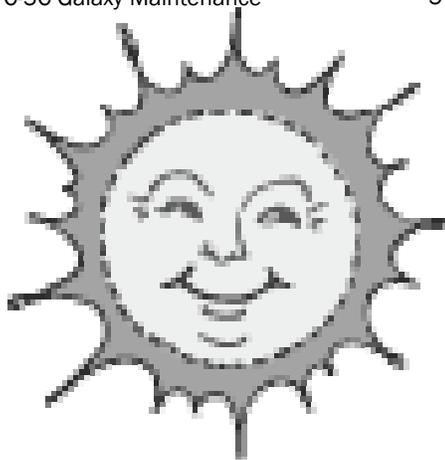


# Lockheed Martin Management Association Retirees Newsletter

*Looking Forward Towards A Wonderful Retiree Future!*

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The Roman poet Ovid provides two etymologies for June's name in his poem concerning the months entitled the Fasti. The first is that the month is named after the Roman goddess Juno, wife of Jupiter and equivalent to the Greek goddess Hera; the second is that the name comes from the Latin word *iuniores*, meaning "younger ones," as opposed to *maiores* ("elders") for which the

JUNE 2013

### Needed: Staff Help

LMMAR needs volunteers to help keep LMMAR going. We particularly need a secretary and a newsletter editor.

If you think you can help please contact:

Norm Dhom, Membership Chair – (408) 732-2742

Jerry Vaughan, Treasurer – (408) 985-2708

preceding month May may be named (Fasti VI.1–88).

Nearly every society has marked the high point of summer in some way, shape or form. On this date – usually around June 21 or 22 (or December 21/22 in the southern hemisphere) – the sun reaches its zenith in the sky. It is the longest day of the year, and the point at which the sun seems to just hang there without moving – in fact, the word “solstice” is from the Latin word *solstitium*, which literally translates to “sun stands still.”

### NOTE

We are discontinuing the LMMAR USPS mailboxes. The Palo Alto box for membership dues was terminated 6/1/13. See the back page of this newsletter for the address for membership. The Santa Clara box for luncheons will be retained at least through the end of 2013.

#### Aegis Ballistic Missile Defense System

In business, time is money. When it comes to missile defense, time is even more valuable.

The sooner an attack is detected the better the chances it can be destroyed. The U.S.

Missile Defense Agency (MDA) took a giant step in shaving that detection time on Feb. 13 when the USS Lake Erie's Aegis Ballistic Missile Defense (BMD) system used remote tracking information provided by satellites to intercept a medium range unitary ballistic missile target for the first time.



After receiving information from space tracking and surveillance systems satellites integrated through Lockheed Martin's Command and Control, Battle Management, and Communications (C2BMC), the Lake Erie launched a Standard Missile-3 Block IA missile before its SPY-1 radar detected the target. The ship's Aegis system, also developed by Lockheed Martin, guided the missile using information from the satellites until the target was detected and tracked by the SPY-1 radar.

“Aegis has achieved many firsts, but using accurate tracking information from a satellite to flexibly enable the capabilities of the sea-based Aegis BMD system may prove to be one of the program’s most significant milestones,” said Nick Bucci, Lockheed Martin’s director of BMD development. “For a long time, many have believed the best path forward for missile defense is an architecture that combines flexible sea-based defenses with persistent space-based capabilities. This test proves that technology and that architecture can be a reality.”

The test off the Hawaiian coast marks the 10th time in three years that the Lake Erie and her crew have successfully performed at-sea operations against cruise and ballistic missile targets using the second-generation Aegis BMD system.

Aegis BMD’s recently upgraded signal processor enables the Navy to defeat more sophisticated ballistic missile threats using improved target identification capabilities.

The MDA and the Navy are jointly developing Aegis BMD as part of the U.S.’s BMD System. The Navy has 26 Aegis BMD-equipped warships, with the number expected to increase to 32 by 2014.

Posted on February 13, 2013

EDWARDS AIR FORCE BASE, Calif., May 16, 2013 – The latest in a series of Lockheed Martin [LMT] F-35A high angle of attack (AOA) testing was recently completed. The testing accomplished high AOA beyond both the positive and negative maximum command limits, including intentionally putting the aircraft out of control in several configurations. This included initially flying in the stealth clean wing configuration. It was followed by testing with external air-to-air pylons and missiles and then with open



weapon bay doors. The F-35A began edge-of-the-envelope high AOA testing in the Fall 2012. For all testing, recovery from out of control flight has been 100 percent suc-

cessful without the use of the spin recovery chute, which is carried to maximize safety.

**F-35B Completes First Vertical Takeoff**

NAVAL AIR STATION PATUXENT RIVER, Md., May 20, 2013 – A Lockheed Martin [LMT] F-35B Short Takeoff/Vertical Landing (STOVL) Lightning II test aircraft recently completed the first-ever Vertical Takeoff (VTO) on May 10. VTOs are one of the many



capabilities required for the fielding an F-35B aircraft. While not a combat capability, VTOs are required for repositioning of the STOVL in environments where a jet could not perform a short takeoff. In these cases, the jet, with a limited amount of fuel, would execute a VTO to travel a short distance.

**Marlin Offers View Under the Sea**

Autonomous underwater vehicle system makes subsea inspections of offshore energy platforms faster, more affordable.

Following maintenance issues or weather damage, oil and gas companies can take up to two weeks or more to inspect their rigs and pipelines before production levels of off-shore oil and natural gas return to normal. This means lost productivity and lost profits for those companies.



But, Lockheed Martin currently has two underwater vehicles – the Marlin® Autonomous Underwater Vehicle (AUV) - that can make those delays a thing of the past.

“We can help companies re-start production faster and more affordably,” said Dan McLeod, Lockheed Martin’s Marlin program manager “Our two systems are available for oil and gas service providers to lease and will enable customers to conduct more fre-

quent and higher quality inspections at lower costs than traditional methods.”

Marlin conducted the oil and gas industry’s first commercial unmanned offshore platform and site inspections in the Gulf of Mexico last year. During its two weeks at sea, the Marlin successfully inspected fixed platforms, the surrounding seabed and partially decommissioned work sites undergoing the final stages of clearance activities.

Marlin is a 10-foot long autonomous underwater vehicle that generates 3-D geo-referenced models of underwater platforms and surrounding seabed, creating an accurate view of the area.

Marlin’s 3-D models provide companies with a full view of the area surrounding a structure and the ability to perform metrology of the structures and seabed. The models enabled accurate plans to be made for an upcoming subsea recovery operation within days of deploying the salvage vessel, as opposed to days or weeks using traditional remotely operated vehicle or diver inspection methods.

Marlin essentially creates a window below the surface of the water that allows operators to manage what they typically cannot see. The inspections in the Gulf of Mexico validated Marlin’s ability to provide faster, smarter and more frequent subsea infrastructure inspections for the oil and gas industry. (Posted on May 7, 2013)

**Lockheed Martin Team Delivers Major New Crime-Solving Capabilities Via FBI’s Next Generation Identification System**

ROCKVILLE, Md., May 15, 2013 — The FBI’s Next Generation Identification (NGI) Increment 3 was deployed on May 5, 2013, providing significant improvement in latent fingerprint search accuracy and a new nationwide palm print identification system to help solve cold cases and improve crime-solving capabilities. These new resources are among the latest upgrades delivered by a Lockheed Martin [NYSE: LMT]-led team for the FBI’s NGI system.

The improvements are the largest so far in a series of phased upgrades to the FBI’s biometric identification services, providing powerful new and enhanced biometric capabilities for more than 18,000 local, state, tribal, and federal law enforcement agencies across the country.

Increment 3 incorporates powerful matching algorithms developed by Morpho, and supplied by U.S. subsidiary MorphoTrak, a

*(Continued from page 2)*

multibiometric technologies company based in Alexandria, Va. The new technology is three times more effective in matching latent fingerprints submitted by investigators to those in the national database, greatly enhancing law enforcement agencies' ability to identify suspects and solve cases.

In addition to creating a system with powerful matching algorithms, the new National Palm Print System (NPPS) contains latent palm prints that will be searchable on a nationwide basis for the first time. Identification of palm prints, which represent about a third of all latent prints, has been used successfully in the past by investigators to match prints from a crime scene against those of known suspects. Now, law enforcement agencies can use the NPPS to compare latent palm prints in a matter of minutes to all of the records in the national database.

"The quantum leap in capabilities provided by Increment 3 and the NGI initiative overall are the result of the technology expertise and dedication of all the Lockheed Martin team members in combination with the vision and leadership of CJIS," said Stephanie C. Hill, president, Information Systems and Global Solutions-Civil, at Lockheed Martin, which also developed and implemented the FBI's legacy Integrated Automated Fingerprint Identification System (IAFIS) system that has been in place since 1999. "We have supported the mission of the U.S. Department of Justice for nearly 40 years, and are committed to maximizing technology to help the FBI and other law enforcement agencies make the nation's streets safer."

NGI Increment 3 also includes improvements that are extending the breadth of searches. Records are managed more efficiently using the case management capabilities of a MorphoTrak product, which when combined with Lockheed Martin-developed software and Morpho search algorithms, allows for the processing of all hand friction ridge areas and prints on file from each arrest cycle. This enables law enforcement agencies to conduct searches with greater speed and convenience.

Previous NGI increments delivered by the Lockheed Martin team have already had a major impact on fingerprint search performance. System accuracy has increased, while response times for submissions were reduced.

NGI is taking the FBI's biometric identification services to the next level, with increased capacity and drastically reduced response times. NGI expansion and enhancements will continue through 2014 to deliver the world's largest electronic repository of biometric identification and criminal history information to assist law enforcement to solve and prevent crimes and terrorist activities and assist employers in hiring qualified workers.

**LMMAR MEMBERSHIP DUES TIME**

Let's welcome the New LMMAR Fiscal Year! The New LMMAR fiscal year 2013-2014 starts July 1, 2013. If you wish to maintain your membership, please complete and send in the form, "LMMAR MEMBERSHIP DUES" and include with your check for \$15 (or multiples thereof for additional years). Send to address: Lockheed Martin SSC, LMMAR Membership B/163, P.O. Box 3504, Sunnyvale, CA 94088-3504. If we have not received your Membership Form and Check by end of November 2013, you will not be included in the Biennial LMMAR Membership Directory. Please include and note any changes on the form. If you decline to renew your membership, check box on form and return. Please enter your name on form.

We are sensitive to the unfortunate circumstance that some of our members have passed away. In such cases we continue to mail the Monthly Newsletter for the remainder of the paid fiscal year. If the addressee has passed away, please make note of the circumstance on form and return it. In such cases the surviving spouse may maintain membership by continuing to pay annual dues.

How can you tell if you owe dues you ask? Look on the mailing label of the Newsletter. You will see an item above your name to the far right. E.g. P12/13 means "Paid for July 12 to June 13 and is now DUE. If you have paid for more than one year, you might see P13/14, which is paid through June 2014. We have received several "Thank You" notes during the past year, they are all appreciated.

Newsletter Sunshine information: Please send us information about retirees who have passed away.

Let's all look forward to another fun and exciting year!

Norman Dhom LMMAR Membership Chairman

**Missing Money**

Saw TV article about missing money that people don't know about. It might include Life Insurance money, oil royalties, dividends, etc.

URL is: **Missingmoney.com**

Enter last name of person you want to check if there is any money missing for them. First name is not required. Who knows, you may find a missing relative, too.

Results will tell what company reported the money, and the value. Over \$100, under 100, or unknown.

Norm Dhom LMMAR Membership Chairman

**Lockheed Martin employee & retiree Discounts:**

Back in Aug '11, I sent out some information on this. Things have changed.

Web site has been upgraded since I looked at Discounts & Benefits.

Need to setup new logon.

Old: SS & password, which is pw used for phonein.

But will now require new pw for online.

PW: 8-12 characters, requires; 1 lower case / 1 upper case / 1 number / 1 special char

Start with:

[www3.benefitsweb.com/lmc\\_html](http://www3.benefitsweb.com/lmc_html)

which will change to

[lmc.lifeatworkportal.com/ ...](http://lmc.lifeatworkportal.com/)

Web site is "Employee Service Center Online".

select "Library" button in upper right side.

select "Retiree Discounts" on left. (may have to select it a second time.)

Information page

select "click here to see full directory"

warning: - "prohibited to post copies of these discounts on internet".

there are 101 pages (PDF). 25 categories, with 50 -70 companies. Membership Column Jun 2013

**MEMBERSHIP**

New Members:

Dade Whitney Thornton

*(Continued on page 4)*

Continued from page 3

1056 Garrity Way  
 Santa Clara, CA 95054  
 Sp: Jane C. Thornton  
 Ph: 408-203-13559

Changes:

Patricia J. Fewel  
 661 Orangetwood Dr  
 Fremont, CA 94536-1831

Ina Mae Michailoff  
 5833 Morgan Pl #72  
 Stockton, CA 95219

Julia Richards  
 34400A mission Blvd Unit #1411  
 Union City, CA 94587-3683  
 Ph: 510-441-3893

Bruce Slater  
 227 Bosun Cove  
 Stafford, VA 22554

Debbie Winter  
 26321 Golf Links Dr  
 Pioneer, CA 95666  
 Ph: 209-295-2204

Membership Dues Are Now Due For The  
 July 12 To June 13 Year.

**Point Of Contact For Address Changes And  
 Other Member Concerns:**

LMMAR  
 O/27-6A B/163  
 P.O. Box 3504  
 Sunnyvale, CA 94088-3504

Norm\_Dhom@Earthlink.Net

Norm Dhom,  
 Membership Chairman

**LMMAR TRAVEL**

December 29, 2013 to January 2, 2014 -  
**THE SPECTACULAR ROSE PARADE** where  
 dreams come true. We will have reserved  
 seats for the Parade viewing. Fly to Los  
 Angeles and return home January 2 after  
 spending 4 nights at the Hyatt Hotel in Long  
 Beach. Before the Parade we will have a  
 tour to the Float decorations and the Getty  
 Villa, lunch at LAWRY's Prime rib restau-  
 rant. There is much more to this trip. There  
 will be eight meals Round Trip air, Pickup at  
 home and return, taxes and driver tips all  
 inclusive for \$1860.00 dbl.

Travel Chairman Vern De Vincenzi 916-  
 408-4852 Talbot Tours: 800-662-9933

**LMMAR's Day at FILOLI**

The Filoli Afternoon Tea and Tour was big  
 success. We bought a block of 24 tickets  
 for Filoli's Afternoon Tea. A number of peo-  
 ple from LMMAR, Old Timers, and the AARP  
 joined us for what the English would call a  
 High Tea. We enjoyed a generous serving of  
 sandwiches, a fresh fruit cup, petits-fours,  
 tea, and other goodies. The men enjoyed  
 the food as much as the ladies. No one  
 went away hungry. Several people, who  
 had obviously been to High Teas before,  
 came dressed in their airy "frocks" and wide  
 sun hats. It was something to see. (A per-  
 sonal note: This was my husband's, Bill's,  
 first High Tea, but, according to him, "I  
 would go back next week if the tickets were  
 not sold out for the year.") The Tea tickets  
 went on sale on the 2nd of January and  
 were sold out in less than two weeks for the  
 rest of the year. Our grounds tour docent  
 was Don Andersen, a retired Lockheed-  
 Martinite, who was very knowledgeable  
 about the facts of the huge estate. Of  
 course, we asked him about programs he  
 worked on at Lockheed Martin, so, when we  
 were not talking about Filoli, we were talk-  
 ing about Lockheed Martin. The entire out-  
 ing, both the tours of the lovingly land-  
 scaped grounds and the beautiful mansion,  
 as well as the Afternoon Tea, received many  
 raves from those fortunate enough to at-  
 tend.

I want to thank Gay Morgan for her gener-  
 ous help on the flyers for this trip.

Submitted by Jan Hammerlund  
 (with Bill Hammerlund's input)  
 LMMAR Assistant Travel Director

**Lockheed Old Timers' Picnic**

First picnic of the year, Wednesday June  
 26th 2013 at Washington Park. All retirees  
 & guests are welcome. For information call  
 Flo Fiance at 408.446.1873, Lucille Wilson  
 408.225.9566 or Wayne Smith at  
 408.268.8351. For Directions to Washing-  
 ton Park in Sunnyvale - visit our website at:  
 www.lockheedoldtimers.org

**Central Park BBQ**

LMMAR Barbeque in Central Park on Friday,  
 August 23, 2013. Join us for a fun-filled  
 afternoon. This member-favorite event will  
 be catered by Andy's Bar-B-Que. Additional  
 information and sign-up form will be in your  
 July newsletter. You don't want to miss this  
 event, so mark your calendar today.

**LMMAR BRIDGE**

May 2 - Pairs Duplicate - 1st Place - (tie)  
 Gary Bea & Chuck Schmidt and Doug Gor-  
 don & Roger Abegg

May 7 - Individual Duplicate - 1st Place -  
 Ted Hinshaw; 2nd Place - (tie) Doug Gor-  
 don and Angie Schynert.

May 9 - Pairs Duplicate - 1st Place - 1st  
 Place - (tie) Doug Gordon & Bob Vigeant  
 and Chet Hayes & Ted Hinshaw

May 14 - Individual Duplicate - 1st Place -  
 Roger Abegg; 2nd Place - (tie) Doug Gor-  
 don and Bob Vigeant.

May 16 - Pairs Duplicate - 1st Place -  
 Angie Schynert & Bob Vigeant; 2nd Place -  
 Paul Peuker & John Moore.

May 21 - No Game.

May 23 - Pairs Duplicate - 1st Place -  
 Angie Schynert & Bob Vigeant; 2nd Place -  
 (tie) Dave Himmelblau & Dave Topka and  
 Chet Hayes & Ted Hinshaw.

May 28 - No Game.

May 30 - Pairs Duplicate - 1st Place -  
 Gary Bea & Chuck Schmidt and 2nd Place -  
 John Parker & Tony Zadel.

**POSITIVE HISTORY SERIES, Article # 5**

(Repeat of Ralph Tamm's original submit-  
 tal)

William T. G. Morton

Down through the ages there is ample evi-  
 dence that medical operations were being  
 performed. It is hard to imagine how a  
 patient was able to endure the pain prior to  
 anesthesia, for limb removal or surgery with

(Continued on page 5)

*(Continued from page 4)*

all degrees of complexity. Speed was the sought after capability of doctors in those days and understandably so.

A Doctor Crawford Long performed a successful operation using ether in 1841. However, lesser individuals called him a charlatan. Because of this he lost most of his patients so he gave up his experiments and reverted to being a country doctor. A dentist, Doctor Horace Wells, tried laughing gas (Nitrous Oxide) but was unable to get the right dosage. Then a Boston dentist, Doctor William T. G. Morton, did extensive and successful experiments anesthetizing animals and fish using inhaled ether. The first official painless operation using ether, administered by Doctor Morton, at the Massachusetts General Hospital, was performed in 1846. In five years, surgery was completely reformed which produced a triumph of over many centuries of human suffering.

Doctor Morton died unheralded and only partially appreciated; and, he was harassed by frivolous and petty lawsuits.

Ref: Triumph over Pain, by René Fülöp Miller, 1938 and Victory over Pain by Betty MacQuitty, 1969

DENVER, June 5, 2013 – A Lockheed Martin [NYSE: LMT]-led industry team has completed successful functional integration tests of the spacecraft bus and network communications equipment on the first satellite of the next generation Global Positioning System, known as GPS III.



The recent testing of GPS III space vehicle 1 (SV 1) bus – the portion of the space vehicle that carries mission payloads and hosts them in orbit – assured that all bus subsystems are functioning normally and ready for final integration with the satellite’s navigation payload. Systems tested included: guidance, navigation and control; command & data handling; on-board computer and flight software; environmental

controls; and electrical power regulation. The SV 1 satellite’s network communication equipment subsystem that interfaces with the ground control segment and distributes data throughout the space vehicle also passed all tests as expected.

This milestone follows February’s successful initial power-on of SV 1, which demonstrated the electrical-mechanical integration, validated the satellite’s interfaces and led the way for functional and hardware-software integration testing.

“The successful completion of the SV 1 bus functional check out validates that the spacecraft is now ready to begin the next sequence of payload integration and environmental testing, prior to delivery,” explained Keoki Jackson, vice president of Lockheed Martin’s Navigation Systems mission area.

GPS III SV 1’s navigation payload, which is being produced by ITT Exelis, will be delivered to Lockheed Martin’s GPS Processing Facility (GPF) near Denver later in 2013. The hosted nuclear detection system payload has already been delivered and mechanically integrated. The satellite remains on schedule for flight-ready delivery to the U.S. Air Force in 2014.

GPS III is a critically important program for the Air Force, affordably replacing aging GPS satellites in orbit, while improving capability to meet the evolving demands of military, commercial and civilian users. GPS III satellites will deliver three times better accuracy and – to outpace growing global threats that could disrupt GPS service – up to eight times improved anti-jamming signal power for additional resiliency. The GPS III will also include enhancements adding to the spacecraft’s design life and a new civil signal designed to be interoperable with international global navigation satellite systems.

Lockheed Martin is currently under contract for production of the first four GPS III satellites (SV 1-4), and has received advanced procurement funding for long-lead components for the fifth, sixth, seventh and eighth satellites (SV 5-8).

The GPS III team is led by the Global Positioning Systems Directorate at the U.S. Air Force Space and Missile Systems Center. Lockheed Martin is the GPS III prime contractor with teammates ITT Exelis, General Dynamics, Infinity Systems Engineering, Honeywell, ATK and other subcontractors. Air Force Space Command’s 2nd Space Operations Squadron (2SOPS), based at

Schriever Air Force Base, Colo., manages and operates the GPS constellation for both civil and military users.

**‘C’ the Galaxy**

The Lockheed Martin Skunk Works® facility in Palmdale, Calif., performed maintenance on one of just two C-5C Galaxy aircraft in the world in May 2013. The C-5C features more cargo capacity than A & and



B models due to removal of the entire passenger compartment. Each of the two C-5C aircraft is assigned to Travis Air Force Base, Calif., and will eventually be modernized to become the C-5M Super Galaxy.

L M M A R O / 2 7 - 6 A B / 1 6 3 P . O . B O X 3 5 0 4  
S U N N Y V A L E , C A 9 4 0 8 8 - 3 5 0 4

June, 2013

## *Activity Calendar*

- **LMMAR Executive Board Meeting.** First Monday of each month unless holiday conflict, then second Monday. 9:30 a.m. Bldg. 157-Front Lobby Conference Room.
- **LMMAR Newsletter Mailing Session.** Volunteers needed. Second Thursday of each month. 9:00 a.m. Bldg. 157-Litrium. Contact Norm Dhom (408) 732-2742.
- **LMMAR Bridge Card Players.** Join the fun! Every Tuesday and Thursday, 12:00 noon at the Willow Park Condominiums located at the NE corner of Moffet Blvd. and Middlefield Road in Mountain View. Entrance is from Moffet Blvd. Contact Dave Himmelblau, 'phone No. 650 968-1121.
- **Lockheed Martin Blood Bank.** Second Wednesday of each month. 8:00 a.m.– 3:00 p.m. Bldg. 163. LMMAR Contact Norm Dhom (408) 732-2742.
- **Lockheed Martin Retirees Investment Group (LMRIG).** Meets last Thursday of each month, 1:00-2:00 p.m. in B163 at the corner of J Street and 1st Ave. (Employee Connection Building). Dues are \$2. Contact Don Kinell (650) 948-1520 or Martin Abelow (408) 253-6924. Join us for lunch in the B-157 cafeteria prior to the meeting between 11:40-12:40.
- **Central Park BBQ.** Watch This Spot for the LMMAR-Mid-August -Barbeque in Central Park. Join us for a fun-filled afternoon where last year approximately 80 plus retirees filled the tables and enjoyed an “all you want” catered barbeque.

For your financial needs, please contact Star One Credit Union at [www.starone.org](http://www.starone.org) or (866) 543-5202 toll free.

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