



Lockheed Martin Management Association Retirees Newsletter

Looking Forward Towards A Wonderful Retiree Future!

SEPTEMBER 2013

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Attention:

Lucille ran across a digital copy in portable document format (pdf) of a special edition of **THE LOCKHEED MSD STAR** dated January, 1956 announcing the commitment to move MSD from Van Nuys to the Bay Area. If you would like a digital copy email a request to: jerry_vaughan@yahoo.com

LMMAR Bridge

Sep 3 - No Game.

Sep 5 - Pairs Duplicate - 1st Place - Roger Abegg & Doug Gordon and 2nd Place - Dave Himmelblau & Dave Topka.

Sep 10 - Individual Duplicate - 1st Place - (tie) Ted Hinshaw and Dave Topka and 3rd Place - (tie) Dave Himmelblau and Bob Vigeant.

Sep 12 - 1st Place Dave Himmelblau & Dave Topka and 2nd Place - Ted Hinshaw & Bob Vigeant

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

Note: If you have an item of interest for the newsletter, please email it to:

jerry_vaughan@yahoo.com

Sep 17 - Individual Duplicate - 1st Place - (tie) Ted Hinshaw and Chuck Schmidt and 3rd Place - (tie) Dave Himmelblau and Angie Schynert.

Sep 19 - Pairs Duplicate - 1st Place - (tie) Angie Schynert & Bob Vigeant and John Parker & Tony Zadel.

Sep 24 - Pairs Duplicate - 1st Place - Gary Bea & Chuck Schmidt and 2nd Place - Chet Hayes & Ted Hinshaw.

Sep 26 - Pairs Duplicate - 1st Place - Chet Hayes & Ted Hinshaw and 2nd Place - Gary Bea & Chuck Schmidt.

From your LMMAR Program Chairman

It's time to start getting your costumes ready for the Halloween Luncheon on October 25th. Prizes will be awarded for: (1) the best over-all, (2) the scariest and (3) the funniest.

If you don't have the dates of remaining LMMAR Luncheons on your calendar, please post them now.

- Halloween - October 25th 2013 at Michaels at Shoreline

- Christmas/Holiday Luncheon - December 20th 2013 at Michaels at Shoreline

For more information call Lucille Wilson at 408.225.9566 or Gay Morgan at 408.243.2233

Sad News

Richard (Dick) Phelps

Susan (Dick's daughter) telephoned on Thursday, 9/4/2013 advising Barbara Mitchem that her father, Richard Phelps, passed away the night before after suffering a massive stroke.

The service is being held on Monday, September 9th at 2:30 at The First Presbyterian Church of Roseburg, 823 SE Lane Ave, Roseburg, Oregon 97479

As he wanted, Richard "will be buried at the Roseburg National Cemetery with military honors."

Mary Turpin-Thompson

Widow of Thomas L Turpin and Richard Thompson

Mary passed away peacefully at home at the age of 86 on Monday, September 16, 2013 with her 6 children by her side. She is survived by six loving children; Kathleen Gard, Linda Vanderostyne, Heather Nunes, Thomas Turpin II, Wayne Turpin, and Maureen Martin. She was a wonderful Grandmother to 20 grandchildren and 32 great grandchildren.

Mary worked and retired from Lockheed Martin in 1987 after 15+ years. She had a loving, spiritual, and spirited personality, blessed with many friends and family. Please raise a toast to Mary knowing she shared her love and time with many.

A memorial mass will be held at 10:00 a.m. on Friday, September 27th in Folsom at St. John The Baptist Church located at 307 Montrose Dr., Folsom, CA 95630

Our family wishes to extend their gratitude to the Folsom Kaiser Hospice for their support during her final days. In lieu of flowers, memorial donations may be made to the Kaiser Foundation Hospice Program, Roseville, CA. or the Myelodysplastic Syndrome Foundation

Cards or letters of condolence may be sent to the family at:

Maureen Martin
861 Lavalier Place
Folsom, CA 95630

Robert Gene Re
July 13, 1940 - September 23, 2013
Resident of Livermore

Bob passed away after a long hard battle with emphysema. Bob worked for Lockheed for 37 years. Bob will forever be remembered by his devoted wife, Alice, beloved children Roger and Robert, as well as their wives, Laura and Cindy, and Alice's children Vince, Carlos and Camille, treasured grandchildren Massimo, Luca, Brandi, Courtney and Noah



D'Angerio. Friends and family are invited to attend a Celebration of Life on Tuesday, October 8th at 11:30 a.m. at the Wente Event Center

at 5050 Arroyo Rd. Livermore, CA 94550.

Amelia Earhart Look-Alike Plane to Retire in Seattle

A 1935 Lockheed Electra is scheduled to fly into Seattle early Saturday afternoon, 9/21. The plane, one of only two that are still around, is identical to the one Amelia Earhart flew during her ill-



fated around-the-world flight in 1937.

The plane will anchor a new permanent exhibit on Earhart that opens next month at the Museum of Flight in Seattle.

And she's a beauty, says Dan Hagedorn, curator and director of collections at the museum.

"It will catch your eye. It's highly polished, gleams in the sun with those wonderful round engine cowlings, its glistening propellers. It's just the epitome of 1930s engineering."

Only 15 of these planes were ever made – and only two are still around. This one was fabricated in 1935 for Northwest Airlines and it likely flew in and out of Seattle more than half-a-century ago.

It's been both an U.S. as well as a Brazilian airliner. It also served as a military transport plane during World War II.

In 1997, the Electra was flown around the world by Linda Finch, who wanted to replicate what Earhart had sought to complete.

It's scheduled to circle and land at Boeing Field at 1:45 p.m. Saturday. It will remain on view in the museum parking lot for one day, before moving into the exhibit in October.

Vice Admiral Is Suspended in Gambling Investigation

By MICHAEL SCHWIRTZ and RAVI SOMAIYA

Published: September 28, 2013

A vice admiral who is second in command at the United States Strategic Command, which oversees nuclear war-fighting forces for the military, has been suspended amid an investigation into his possible involvement in illegal gambling, officials said on Saturday. The officer, Vice Adm. Timothy M. Giardina, is a highly decorated sailor with more than three decades in the Navy. The suspension occurred on Sept. 3, but was not announced publicly, said Capt. Pamela Kunze, the command's spokeswoman.

Captain Kunze would not comment further on the circumstances surrounding the suspension, citing a continuing investigation by the Naval Criminal



Investigative Service.

The Strategic Command was first alerted about the issue in mid-July. A month earlier, Admiral Giardina became the target of an inquiry being conducted by the Iowa Division of

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Criminal Investigation into possible use of counterfeit gambling chips at the Horseshoe Casino in Council Bluffs, Iowa, said David Dales, the head of the Southwest division of the Iowa Division of Criminal Investigation.

Mr. Dales said the criminality in question involved poker at the casino, but said he could provide no further information. The agency's investigation is still open and no state charges have been filed against Admiral Giardina, Mr. Dales said.

It was not clear whether Admiral Giardina's actions compromised national security or the operations of the Strategic Command.

The commander of the Strategic Command, General C. Robert Kehler, has submitted a recommendation to Defense Secretary Chuck Hagel that Admiral Giardina be reassigned, Captain Kunze said. It has not been determined what, if any, additional actions will be taken. The leadership of the Strategic Command is appointed by the president and confirmed by the Senate.

The Strategic Command, based at Offutt Air Force Base near Omaha, oversees a web of military efforts including the military's space and cyberwarfare operations. It also controls the country's nuclear arsenal.

Admiral Giardina, a career submarine officer, assumed his duties at the Strategic Command in December 2011. Before that, he was the deputy commander and chief of staff of the Pacific Fleet. He graduated from the Naval Academy in 1979. He was scheduled to rotate out of his position at Strategic Command later this year. In early July, President Obama appointed an Air Force general to replace Admiral Giardina.

Meet your new \$100 bill

By Emily Jane Fox @emilyjanefox
 April 24, 2013: 7:22 PM ET NEW YORK (CNMoney)

For only the fourth time in history, there will be a new \$100 bill.

After a three-year delay due to slower-than-expected production, Americans will finally have an improved, high-tech \$100 bill for their wallets, the Federal Reserve said Wednesday.

The bill is set to debut on Oct. 8.

What's so special about the new greenback? To start, the Fed says the bill is a culmination of a decade-long research and design process.



The note features a series of amped-up security measures aimed at combating counterfeiters, including a blue, 3-D security ribbon on the front of the bill that moves when the note is tilted back and forth and side to side.

The inkwell and bell on the front of the bill and the number 100 on the right-hand corner also change from copper to green when the note is tilted.

This is the fourth time the \$100 bill has been redesigned, according to a Fed spokeswoman. It has been revamped three times in the last 20 years alone, as the Fed had to react more often to improved counterfeiting technology.

The design was first unveiled in 2010 and was meant to go into circulation in Feb. 2011.

Lockheed Martin clinches \$4 bln Pentagon missile defense deal

Sep 21, 2013 12:25am EDT

(Reuters) - The Pentagon said on Friday it had finalized a contract worth nearly \$4 billion with Lockheed Martin Corp to supply additional missile defense equipment to the United States and the United Arab Emirates.

The deal involves Lockheed's Terminal High Altitude Area Defense (THAAD) missile defense system that is designed to intercept ballistic missiles in midair, according to the the Pentagon's daily digest of major weapons contracts.

The contract reflects growing confidence and demand for the missile defense system, said Riki Ellison, founder of the non-profit Missile Defense Advocacy Alliance.

The deal, which has been in negotiation for several years, will combine orders for the United States and UAE, generating savings for the United States of about 10 percent, said Mat Joyce, Lockheed vice president and THAAD program manager.

It includes 192 interceptors for the UAE and up to 110 interceptors for the U.S. Army, including an option for fiscal 2014 that is valued at \$352 million, to be exercised no later than Dec. 31, according to the Pentagon announcement.

Joyce said the option would allow the U.S. government to benefit from the lower pricing at a time when it is facing likely additional reductions in the U.S. defense budget.

The United States is in talks with Qatar on a possible sale of the THAAD missile defense system.

Saudi Arabia, Japan and South Korea have also expressed interest, Joyce said.

The U.S. Missile Defense Agency last week conducted the first operational test of the THAAD system and its ability to work together with the Aegis combat system on a guided-missile destroyer. Working together, the two systems intercepted two medium-range ballistic missile that were fired nearly simultaneously.

Earlier this year, after North Korea threatened to launch a nuclear attack on the United States, the Pentagon moved two Aegis destroyers to the western Pacific and a THAAD missile system to its Pacific territory of Guam.

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Surprising Examples of Drones at Work

Drones might be most commonly associated with security and public safety missions—but they’re also helping with everything from distance learning to scientific research. Read on for our Unmanned Systems team’s top ten list of the most surprising examples of drones at work:

1. **Pest control** – Three professors at the Virginia Military Institute created a tick-hunting robot that emits carbon dioxide to mimic human breath, which lures the real blood-sucking pest to its death. Recent tests have proved success, and the VMI team is hoping to offer the robot on the commercial market.



2. **Extreme photography** – World-class mountaineer David Lama and his climbing partner Peter Ortner recently used a remote-control helicopter to shoot breathtaking images of the Karakoram Mountains. Outdoor clothing and equipment companies Mammut and Dedicam lead the joint effort.

3. **Seafood watchdog** – Puget Sound seafood uses a drone to protect consumers from food poisoning. The environmental sample processor, or ESP, retrieves, analyses, and provides reports on water quality, indicating any possible contamination. Those reports get sent to Northwest Fisheries Science Center, which monitors the health of shellfish in the region.

4. **Breaking the flutter barrier** – Flutter is a wing gyration that occurs during normal flight, but uncontrolled, flutter can cause instability and catastrophic structural failure. Lockheed Martin’s experimental aircraft X-56A is

a flying testbed for flutter-suppression technologies. The data generated from the X-56A flights will eventually lead to the design of lighter weight, more efficient wing structures for drones. And solving the mysteries of flutter will lead to safer flight for all aircraft.

Next-generation Weather Satellite to Enhance Forecasting and Help Save Lives



Story Highlights

Built on the Lockheed Martin A2100 satellite platform, GOES-R will feature advanced instrument capabilities, including more visible and infrared channels, four times the imaging resolution and new lightning detection technology.

GOES-R will send updates every five minutes compared to the current GOES system updating every 30 minutes.

Lockheed Martin is also designing a new Solar Ultraviolet Imager, a Geostationary Lightning Mapper (GLM) and a magnetometer.

In recent weeks, weather-related tragedies and developments have occupied a prominent place in news headlines across the United States.

A series of tornadoes devastated the Oklahoma City area May 20 and May 31, including the town of Moore, leading to more than 20 deaths and at least \$2 billion in property damage, according to news reports.

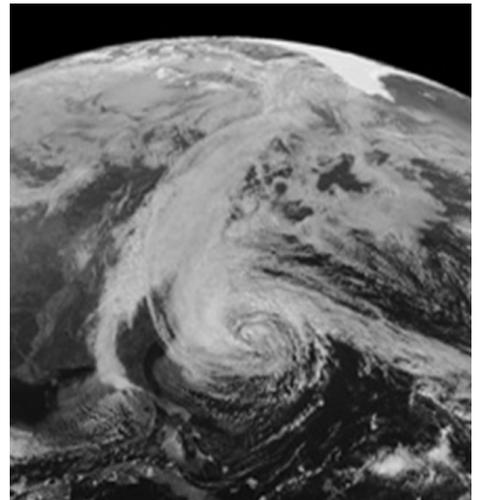
In late May, the National Oceanic and Atmospheric Administration (NOAA) issued its 2013 Atlantic hurricane season forecast, calling for an active season. According to NOAA officials, a 70 percent chance exists of 13 to 20 named storms (winds of 39 mph or higher) developing, with seven to 11 possibly becoming hurricanes (winds

of 74 mph or higher), including three to six major hurricanes (Category 3, 4 or 5; winds of 111 mph or higher).

This compares to seasonal averages of 12 named storms, six hurricanes and three major hurricanes.

The backdrop of deadly tornadoes and an anticipated active hurricane season accentuates the critical nature of accurate and timely weather forecasting for protecting lives and property. That is where Geostationary Operational Environmental Satellites (GOES) come into play.

For almost 40 years, GOES satellites have served a pivotal role in monitoring weather developments over the United States. Perched in fixed positions over the east and west coasts of America, two satellites have monitored atmospheric and solar conditions and provided continuous imagery and data to enable meteorologists to make forecasts and identify and track dangerous weather systems, such as tornadoes, hurricanes and thunderstorms.



In May, NOAA issued the 2013 Atlantic hurricane season forecast. Officials have increased the predicted number of storms and hurricanes highlighting the critical need for accurate and timely forecasting. Hurricane Sandy as seen from NOAA's GOES-13 satellite on October 28, 2012. Credit: NOAA/NASA

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Operated by NOAA, GOES satellites have been in operation since the launch of the first satellite in 1975. The satellites maintain constant watch over the United States, Pacific and Atlantic Oceans, Central and South America and Southern Canada, all from a point approximately 22,300 miles above Earth.

Now, the next generation of GOES satellites is under development, with Lockheed Martin Space Systems building the GOES-R series, the first of which is scheduled for launch aboard a United Launch Alliance Atlas V rocket in late 2015.

Built on the proven Lockheed Martin A2100 satellite platform, GOES-R will feature advanced instrument capabilities, including more visible and infrared channels, four times the imaging resolution and new lightning detection technology. Along with building the spacecraft, Lockheed Martin was selected to design a new Solar Ultraviolet Imager, a Geostationary Lightning Mapper (GLM) and a magnetometer.

"Current GOES satellites send updates over the entire western hemisphere every 30 minutes," said Paula Hartley, Lockheed Martin vice president and GOES-R program manager. "The GOES-R series will reduce this update time to every five minutes, and in a special operating mode, the imaging instrument on GOES-R will offer repeat views of evolving storms over smaller areas every 30 seconds."

According to Hartley, the GLM will map total lightning within its coverage area to provide earlier indications of storm intensification and improved tornado warning lead times.

"The GLM's 'total lightning' observations of thunderstorms will provide National Weather Service forecasters with advanced severe weather-prediction capabilities to increase warning lead times and, ultimately, help save lives, Hartley said."

GOES-R will also enable forecasters to track hurricane direction and landfall more effectively by narrowing the "cone of uncertainty" for predicted storm tracks. This improved accuracy will help emergency managers save resources by having to evacuate fewer people out of harm's way.

Illustrating the vital role of the GOES satellites, GOES-13 went offline temporarily in late May after apparently being struck by a micrometeoroid, prompting NOAA to activate a backup satellite to ensure continued coverage over the eastern United States and the Atlantic Ocean.

Although officials successfully reactivated GOES-13 June 10, the incident underscored the importance of the continuing progress on the GOES-R series program.

In 2012, the GOES-R spacecraft team passed a critical design review and program review, enabling the team to transition from the engineering to the build, assembly and test phase.

NASA, who partners with NOAA in the acquisition and development of the GOES-R series, exercised an option for Lockheed Martin to build two additional satellites, bringing the total number of satellites to be built to four. GOES-R will inaugurate a new generation of weather satellites, extending the lifetime of the GOES series to at least 2036.

"This critical new national asset will help ensure that every community is given as much forewarning of severe weather as possible to minimize loss of life and property," Hartley said. "The GOES-R series will give us the capability to truly help save lives."

Posted July 10, 2013

New Silk Road

From the Han Dynasty to broadband!

FBI shuts down online drug market
Silk Road

By Jose Pagliery @Jose_Pagliery October 2, 2013: 5:20 PM ET (excerpts)

According to the sealed complaint filed by the FBI, federal agents arrested Ross William Ulbricht on Tuesday afternoon, charging him with narcotics trafficking, computer hacking and money laundering.

The FBI also seized the Silk Road website, replacing its homepage with a banner noting as much, according to agency spokeswoman Kelly Langmesser.

Since its 2011 inception, Silk Road has been the go-to black market for all sorts of illegal products and services. Its draw? The online marketplace offered an easy way to find goods and services – and transact the money in secret. The site had 957,079 registered users, according to the FBI.

"Based on my training and experience, Silk Road has emerged as the most sophisticated and extensive criminal marketplace on the Internet today," FBI Special Agent Christopher Tarbell said in the complaint.

The site was operated on an anonymous network known as Tor (The Onion Ring), making activity on Silk Road virtually untraceable. The only money accepted on Silk Road was the digital currency bitcoin, adding an additional layer of anonymity to buyers and sellers.

The use of bitcoin helped Silk Road become a giant money laundering operation, according to the FBI. To process bitcoin transactions, Silk Road used what the FBI described as a "tumbler," a complex system that used countless dummy transactions to digitally conceal where the money came from.

Over the past two and a half years, the FBI said the site generated revenue worth more than 9.5 million bitcoins – valued at \$1.3 billion early Wednesday.

Silk Road wasn't restricted to illegal drugs. The FBI says it was also used to trade firearms, hire assassins and employ hackers.

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SEPTEMBER, 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.
- **Lockheed Old Timers' Pizza Depot Get-Together,** November 12th, 2013 . Everyone is welcome. For information call Flo Fiance at 408.446.1873, or Lucille Wilson 408.225.9566. Directions to Pizza Depot are on our web-site: www.lockheedoldtimers.org

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

LMMAR NEWSLETTER

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