



# Lockheed Martin Management Association Retirees Newsletter

*Looking Forward Towards A Wonderful Retiree Future!*

FEBRUARY 2015

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## Needed: Staff Help

LMMAR needs volunteers to help keep LMMAR going. We have several vacancies on the Board and we particularly need a newsletter editor. If you think you can help please contact:

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

Jerry Vaughan, Treasurer – (408) 985-2708

## Obit

### John “Jack” Cunningham

Nov. 12, 1931 – Jan. 9, 2015

We lost a long time helper at the LMMAR mailing. He was one of our consistent volunteers, who once a month helped to prepare the Newsletters for mailing.

John (Jack) Edward Cunningham, a native of San Jose, lived a life defined by his love of family, his Catholic faith, and his passion for sports. He was a proud graduate of Bellarmine College Preparatory, who moved on to Loyola University, Los Angeles, to play football, and then to serve his country in the U.S. Air Force. He married Doreen Cunningham with whom he shared 57 happy years of marriage. Together they raised four children, traveled the

world in their retirement, and reveled in the births of their six grandchildren. An avid sports fan, he passed on his love of sports to his children and grandchildren always supporting their endeavors, whether it is baseball, football, basketball, swimming, cycling, or hockey, and was always ready to discuss the latest scores and projections for his favorite Bay Area teams.

Jack, a 30-year employee of Lockheed Missiles and Space, lived a full and active life participating in many of the activities available to him at the Villages Golf and Country Club, where he and Doreen lived together in retirement until she passed away in 2009.

Jack joined Doreen in eternal life on January 9, 2015, and will be deeply missed by family and friends. He will be remembered for his love and devo-

tion to family and for his remarkable fortitude and resilience.

He is survived by his children, Patricia Anne, Dennis (Patricia), James (Maria), and Kathleen (Matthew); his grandchildren, Alexandra, Brian, Garrett, Thomas, Dylan, and Laura; his sister, Kathleen Morgan and many nieces and nephews.

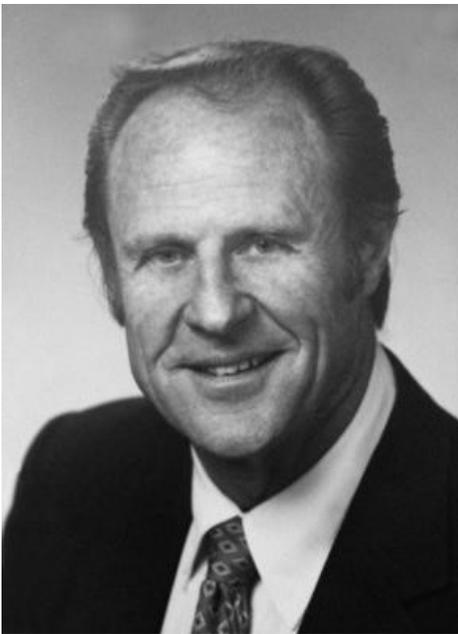
A memorial Mass was held at 2:00 p.m. on Friday, January 16, 2015, at St Francis of Assisi Church, 5111 San Felipe Road, San Jose, CA.

### Douglas Allen Douglass

April 10, 1930 – January 10, 2015

Douglas Allen Douglass, a third generation Nevadan, was born and raised in Tonopah. Doug was the grandson of William (“Billy”) Douglass who served as Nye County Commissioner and

founded Douglass Camp. Billy's wife, Kathleen McQuilan Douglass, was said to be the first baby baptized in St. Mary's of the Mountains Catholic church in Virginia City. From their marriage were born sons, Jack, Robert, Belmont (so named because he was born the day they discovered the Belmont Mine), Lee, who died in his teens, and a daughter, Gladys. Belmont and his wife, Jane Mann Douglass, had Doug, born in 1930 and Paula, a life-long resident of Tonopah, in 1933.



After graduating from Tonopah High School as Salutatorian, Doug accepted the Harold's Club academic scholarship instead of the athletic scholarship offered for the University of Nevada. He played as starting guard on the Dream Team of 1951-52 basketball team, graduated in 1953 with a bachelor's degree and completed his master's degree in 1956. While at UNR,

Doug was one of the stunt doubles who pole vaulted for Alan Young when "Mr. Belvedere Goes to College" was filmed on the UNR campus. After ROTC, he entered the Army as a lieutenant and remained on reserve status through the early years of his career.

Doug worked for the U. S. Bureau of Mines after college, then for Kaiser Aluminum before he joined Lockheed Missiles and Space in 1958 where he distinguished himself as an engineer and finished his career 32 years later as Launch System Integration Manager of the Milstar Communications Satellite, launched in 1994 after his retirement. Doug loved his work in aerospace and delighted in meeting and training astronauts prior to the rendezvous and docking of the first moon landing mission. His attention to detail and contingency planning for back up systems helped ensure the safety of the programs he participated in: Mercury, Gemini, Apollo, and the Milstar communications satellite system. In 1992, the University of Nevada recognized Doug's work in aerospace with their Professional Achievement Award, and in 1999, Sigma Nu Fraternity awarded him their annual Legion of Honor.

Doug will be remembered as a brilliant, dedicated, soft spoken man with a diplomatic style of management in the last project he was involved with at Lockheed, as Manager of the Launch System Communications Milstar satellite. His strong faith showed in his dedication to the church, where he lead music at the Saturday evening mass at St. Williams Catholic Church

in Los Altos, California, for twenty years, singing and playing bass guitar. In addition to his love of music, Doug enjoyed family, entertaining and travel. With wife Irene was a realtor in Los Altos for many years, when she and Doug joined the San Jose Cathedral Choir in 1995 and sang the Mass at St Peter's Basilica in Rome.

Doug is survived by his wife, Irene Aylworth Douglass, sons Richard, James, Mark David and Michael, daughter Kathleen, first wife Juanita Barrett Douglass; grandchildren Ben, Chris and Gregory Douglass, and Kyle and Molly Asplund; sister Paula Douglass, and stepsons Mark and Kevin Aylworth, and step grandson, Peter Aylworth.

Doug lived in Roseville, California, in a care home during his last ten years.

His accomplishments and warmth will remain in the hearts of those who knew and loved him.

A Memorial Service, Mass and Celebration of Life Reception will be held Saturday, February 21, 2015 at 11 am at St. William Catholic Church, 611 South El Monte Ave., Los Altos, CA. 94022. In lieu of flowers, the family encourages donations to the Alzheimer's Association.

#### **WindTracer LIDAR System**

DUBAI, United Arab Emirates, January 27, 2015 – Bayanat Airports Engineering & Supplies LLC, the leading airport solutions provider in the Middle East, in collaboration with Lockheed Martin [NYSE: LMT], has successfully commis-

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sioned and put in operation three WindTracer systems. Dubai Air Navigation Services (DANS) is analyzing wake data from WindTracers to ensure that concepts to reduce aircraft separations and increase airport efficiency can be implemented while maintaining safety at Dubai International Airport.



Dubai International Airport

WindTracer is a LIDAR (light detection and ranging) system that measures the strength and behavior of wake vortices caused by arriving aircraft. The implementation of Lockheed Martin's LIDAR systems will help DANS meet future aircraft traffic demands at Dubai International Airport, which has seen a significant increase in air traffic volume. The first two WindTracers were installed in 2013, and the contract originally awarded by Dubai Aviation Engineering Projects Corporation was extended to include a third system to collect wake information more quickly.

"We are pleased that all three LIDARs are now fully operational and are being used by DANS to address capacity and safety improvements," said Ibrahim Ahli, senior vice president of Du-

bai Air Navigation Services. "With the rise of demand for air travel and the forecasted future growth, we are continuously striving to implement innovative solutions to keep our skies safe and our operations efficient."

WindTracer wake measurements will be used for proving new concepts to reduce aircraft separations during arrivals, thereby increasing airport throughput. WindTracer data helps increase airport capacity while allowing the highest standards of air traffic safety.

Dr. Michael Margulis, Director of WindTracer Programs at Lockheed Martin, said: "WindTracer has been a major enabler for similar wake mitigation efforts in the U.S. and Europe, increasing aircraft throughput at many airports by up to 30 percent. That boost in efficiency not only enables more aircraft arrivals and departures, it also eliminates the need to build additional runways to accommodate heavy traffic volume."

Dubai International, ranked the busiest airport in the world in terms of international passengers, is connected to over 260 destinations across six continents through more than 140 scheduled airlines. Work is in progress on a number of projects at Dubai International as part of the US \$7.8b 2020 strategic plan, which seeks to expand the airport's capacity to 100 million by 2020. These projects include Concourse A – the world's first facility purpose built for the A380 that opened in 2013, and a new concourse – Concourse D – scheduled for opening later this year,

among others.

**About Bayanat Airports**

Bayanat Airports Engineering & Supplies, part of Bayanat Engineering Group, is the leading airport systems integration provider, specializing in Air Traffic Control systems, Runway systems and Terminal Systems. The company has worked on key projects in the region including all major airports in the UAE and the new Doha International Airport in Qatar. With offices in Abu Dhabi and Dubai, Bayanat Airports Engineering & Supplies has a staff of highly trained engineers, providing state-of-the-art technologies from leading international companies. For further information, please visit <http://www.bayanatengineering.com>

**About Dubai Air Navigation Services (DANS)**

Dubai Air Navigation Services (DANS) is a government organization operating under the Royal decree issued by HRH Sheikh Mohamed Bin Rashid Al Maktoum. DANS has been successfully providing Air Navigation Services in Dubai and the Northern Emirates since 1967. Starting as a small department within Dubai Airports, the organization has grown significantly in recent years to accommodate the exponential growth at Dubai Airports.

**Sim-Industries**

ORLANDO, Fla., Jan. 26, 2015 – Sim-Industries, a leading provider of commercial aviation training solutions, has changed its name to Lockheed Martin Commercial Flight Training (LMCFT). [NYSE: LMT]

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Sandy Samuel has been appointed to lead the organization as vice president and general manager. Samuel previously served as vice president of Operations for Lockheed Martin's Information Systems & Global Solutions Civil line of business. She succeeds Jeffrey Wood, who will be accepting a new executive leadership role within Lockheed Martin Aeronautics.

"Lockheed Martin Commercial Flight Training leverages the innovation, quality and commitment synonymous with the Lockheed Martin brand," said Jon Rambeau, vice president and general manager, Lockheed Martin Training and Logistics Solutions. "Building on that legacy, Sandy's proven leadership and experience will drive the business forward, delivering affordable and reliable training capabilities to our commercial aviation customers around the globe."



LMCFT provides a complete suite of commercial aviation training products and services including full flight simulators for the Boeing 737, 767, 777, 787 and Airbus A320, A330/340. The business also operates international commercial aviation training centers based in São Paulo, Brazil, and In-

cheon, Korea.

### F/A-18 Super Hornet IRST System

Orlando, Fla., and ST. LOUIS, Mo., Jan. 22, 2014 – The F/A-18 Super Hornet infrared search and track (IRST) sys-



tem, developed and integrated by Boeing [NYSE: BA] and Lockheed Martin [NYSE: LMT], received approval from the U.S. Navy to enter low-rate initial production.

The IRST system consists of Lockheed Martin's IRST21™ sensor, the GE Aviation FPU-13 Fuel Tank Assembly and the Meggitt Defense Industry Environmental Control unit. The system demonstrated its production readiness through a series of extensive assessments and reviews, including flight tests.

"This 'see first, strike first' capability can be used in a variety of threat environments and is a game changer for our warfighters as we combat future adversaries," said U.S. Navy F/A-18 program manager Capt. Frank Morley. IRST is expected to deploy on the F/A-18 Super Hornet in 2017.

IRST21 is the next generation of Lockheed Martin's legacy IRST sensor system, which accumulated more than 300,000 flight hours on the U.S. Na-

vy's F-14 and international F-15 platforms. The long-range IRST21 sensor uses infrared search and track technology to detect, track and enable the Super Hornet to engage threats with air-to-air weapons.

"Lockheed Martin and Boeing have proven the maturity of the IRST21 sensor and the IRST system and are poised to get this advanced capability out to the fleet to support Navy carrier strike group objectives," said Ken Fuhr, fixed wing program director at Lockheed Martin Missiles and Fire Control.

In addition to detecting airborne threats, IRST significantly enhances multiple target resolution compared to radar, providing greater discrimination of threat formations at longer ranges. Data from the IRST21 sensor is fused with other on-board F/A-18 sensor data to provide maximum situational awareness to the warfighter.

"The IRST system is another example of how we continue to evolve Super Hornet capabilities to ensure it outpaces future adversaries," said Tim Adrian, F/A-18 IRST program manager at Boeing.

### Enhanced Automated Testing Station

ORLANDO, Fla., Jan. 21, 2015– Lockheed Martin [NYSE: LMT] delivered the first electronic Consolidated Automated Support System (eCASS) to the U.S. Navy for maximizing aircraft readiness.

Sailors and Marines will use eCASS to troubleshoot and repair naval aircraft electronic components at sea and ashore, allowing them to return air-

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craft to operational status quickly and efficiently. The Navy expects to deploy eCASS on every U.S. aircraft carrier and at its Aircraft Intermediate Maintenance Depots.

“With eCASS, the Department of the Navy will enable a cost avoidance of more than \$1 billion annually by averting the repair of avionics at the next level of maintenance or sending the parts back to the original equipment manufacturer,” said Chris Giggey, deputy program manager for Automated Test Systems at the U.S. Navy Naval Air Systems Command.



“Our focus is providing Sailors and Marines with the most effective tool to maintain the Navy’s aircraft because they are called on to ensure security anytime and anywhere,” said Randy Core, director of Enterprise Test Solutions at Lockheed Martin Mission Systems and Training. “eCASS advances automated testing to maximize aircraft availability worldwide.”

Currently, the Navy has ordered 38 eCASS stations and is gearing up to purchase an additional 29. The Navy ultimately plans to field 341 of these stations.

eCASS preserves the Navy’s invest-

ment in test programs, extending the value of the legacy CASS program that consolidated 30 test equipment systems into one resulting in \$3.9 billion in cost avoidance. The system can support more than 750 avionics components as well as a range of electronic equipment on carriers, other maritime craft or at shore to reduce the amount of gear needed for deployments.

**LMMAR Bridge**

Jan 2 - Pairs Duplicate – No Game.

Jan 6 - Individual Duplicate - 1st Place – Roger Abegg, 2nd Place - Dave Topka, and 3rd Place – (tie) Dave Himmelblau and Chuck Schmidt.

Jan 8 – No Game.

Jan 13 - Individual Duplicate - 1st Place – (tie) Doug Gordon and Dave Topka, and 3rd Place – (tie) Gary Bea, Alex Fucile, Dave Himmelblau, and Chuck Schmidt.

Jan 15 - Pairs Duplicate – No Game.

Jan 20 - Individual Duplicate - 1st Place – Chuck Schmidt and 2nd Place-(tie) Dave Himmelblau and Ted Hinshaw.

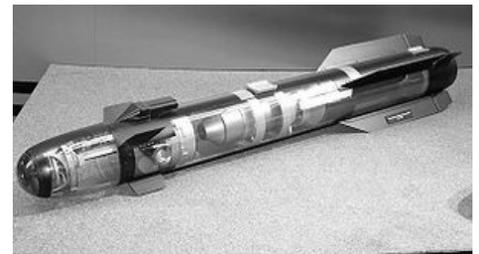
Jan 22 - Pairs Duplicate – 1st Place – Gary Bea & Chuck Schmidt and 2nd Place - Dave Himmelblau & Dave Topka.

Jan 27 - Pairs Duplicate - 1st Place - Gary Bea & Chuck Schmidt and 2nd Place – Angie Schynert & Bob Vigeant.

Jan 29 - 1st Place – Dave Himmelblau & Dave Topka and 2nd Place - Gary Bea & Chuck Schmidt.

**AGM-114 Hellfire Missile**

Lockheed Martin manufactures the Hellfire missile in all of its various forms for about \$110K a copy. So every time you see them shoot one of these at a single human target it costs a bundle. LMCO has made well over a billion dollars worth of these missiles.



**Your Story**

We need your input. Have you done anything exciting lately? Do you



have any news that might be of interest to our members? Your story and photo is welcome!

Email it to [jerry\\_vaughan@yahoo.com](mailto:jerry_vaughan@yahoo.com).

FEBRUARY 2015

## **Activity Calendar**

- **LMMAR Executive Board Meeting.** First Monday of each month unless holiday conflict, then second Monday. 9:30 a.m. Bldg. 157-Satellite Room (off the cafeteria).
- **LMMAR Newsletter Mailing Session.** Volunteers needed. Second Thursday of each month. 9:30 a.m. Bldg. 157-Litrium. Contact Norm Dhom (408) 732-2742.
- **LMMAR Bridge Card Players.** Join the fun! Every Tuesday and Thursday, 11:30 a.m. 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 Drive.** 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.
- **LMMAR LUNCHEON SCHEDULE FOR 2015**
  - March - St. Patrick's Day Luncheon at Michael's at Shoreline Date not confirmed
  - July- Barbeque in Central Park, Santa Clara - Date not set
  - October - Halloween Luncheon at Michael's at Shoreline Date not confirmed
  - December 11, Holiday Luncheon at Michael's at Shoreline Date confirmed.

*For further information, please contact Lucille Wilson at 408-225-9566 or Gay Morgan at 408-243-2233*

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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