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October 2013

*Sponsored by LOCKHEED MARTIN*

# MARS STAR



## **MARS Activities This Quarter:**

**2013 Holiday Celebration  
December 11, 2013**

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## **REMINDER:**

**If you move, please give the membership VP a change of address. Also, if you are a snowbird, let us know when you are leaving and when you plan to return so your MARS STAR can be sent to you. It costs us 70 cents for each STAR package returned.**

*(Published quarterly by MARS Associates, Retirees of Lockheed Martin Corporation and United Launch Alliance, Denver, CO)*

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### **Cover:**

**L:** Lockheed Martin and Raytheon Company successfully completed the third of five planned launch and early orbit exercises to demonstrate the launch readiness of the world's most powerful and accurate Global Positioning System (GPS), the U.S. Air Force's next generation GPS III satellite and Operational Control System (OCX).

**R:** Geostationary Operational Environmental Satellite R-Series (GOES-R) - The Solar Ultraviolet Imager (SUVI) instrument makes crucial solar measurements. (See page 8)



## President's Corner

By Allen Sanders  
([alsal75@comcast.net](mailto:alsal75@comcast.net))

What a super day we had for the picnic last month. Great food, good entertainment and fellowship, a wonderful list of prizes, an outstanding attendance turnout, and **NO** rain! I was told repeatedly that I could not be heard over the sound system at some of the pavilions. I apologize for that again, but we used relays to get the ticket numbers announced to everyone.

Our next major activity is the Holiday Celebration at The Inverness Hotel, on Dec 11. Look for the flyer in this mailing. The event is a luncheon again this year, which seems to be the preference of the majority of participants. Also again this year, we will have a collection box for any donations of new unwrapped toys or cash for Operation Santa Claus. I hope to see many of you there.

The hidden MARS membership number in the July STAR was 415 and it was on page 10, at the end of the Historian article. It belongs to Lois Fait, but the free one year's membership was not claimed. Someone else now has a chance in this STAR. Find your membership number written out in words in this STAR. (Your number is on your membership card and on every STAR mailing label). Then call any Officer or Director before the next STAR publication in Jan, 2014 and the next year's MARS dues is free.

Per the MARS Policy Manual, each fall we make a donation to Operation Santa Claus (OSC) in remembrance of the MARS members who have passed away during the past year. This year a donation check of \$1325, representing \$25 for each deceased member, was presented to OSC.

We are in the process of making necessary changes to the MARS Bylaws and Policy Manual. Any suggestions may be sent to me at the above email address. The current version of these documents is posted on our web site.

The Volunteer button on the MARS web site has a section on Volunteer opportunities for helping out in our community, including tutoring at some of the local schools. There is a new opportunity for tutoring math and science at Heritage High School in Littleton for 1.5 hours a week beginning in January 2014. Look for details in a flyer included in this mailing and also in the above section of our web site.

Throughout the year, MARS members volunteer to work Lockheed Martin Space Systems Company and United Launch Alliance activities. On Sep 12, the annual Lockheed Martin Diversity Day was supported with a MARS information table, staffed by Gene and Doris Cody. The Lockheed Martin Fun Run was supported the week of Sep 9 for registration and other race activities by Roy and Anita Kannady, Larry Major, Bette Henson, Barb Espinoza, and Bart and Dianne Wright. Both LMA and ULA held car shows this September and volunteers who worked these events were Larry Major, Theodore Bornhoeft, and Bart & Dianne Wright. Finally, there was another Health Fair, on Oct 16, 23, and 29 at the Deer Creek Facility. It was supported by Bob & Jean Lines, Bo Rodriguez, Judy Nielson, Louis and Meta Moses, Duane Del Duca, and myself and Sally. Get in on next year's volunteer activities by contacting our volunteer coordinator, Hazel Chapman, at the number on the inside front cover of each STAR.

Speaking of the satisfaction and enjoyment of giving service in support of others, check out the upcoming openings in MARS Officer and Director positions detailed in Bill Schrott's column of this STAR. Please consider taking on a two year commitment for one of the offices coming up for election. It will benefit your MARS organization, your fellow LM and ULA retirees, and will truly benefit you to get involved. Thank you.



## Next Up!!!

By Duane Del Duca

([ddelduca@comcast.net](mailto:ddelduca@comcast.net))

Fall is upon us and hopefully some of those cool crisp days that go with colorful foliage and fall sports will also be upon us. *Are you ready for some football?* I trust all had a great summer. My personal summer was upset by some serious medical issues my wife had. Thankfully all is on the mend.

What a great picnic! The weather was perfect, the food was excellent, and the opportunity to meet old friends and acquaintances was just as perfect. Thanks to Bob Lines for another fine picnic. The next event we all need to mark our calendars for is the Annual Holiday Event, again plan on a fine venue.

Your Clubs are functioning well thanks to the participation from you the members. The Golf Club is winding up its summer and the Hiking Club had its last hike in mid-October. I understand there are plans afoot for some winter fun. Make sure to read the Hiking Club's article in this issue of the STAR. The Dinner Club will wind up its year with an old favorite that always provides good food and an excellent view; Mt. Vernon Country Club.

As I write this article I am also reminded that there are other clubs that might be interesting to examine and/or to join, especially if you enjoy Bridge, Photography or Computers. Your MARS Clubs are always anxious to welcome new members. If one of these is of interest to you, contact the respective Chairperson or Leader and let them know of your interest. The contact information can be found on the MARS web site or on the second page of the STAR.

An important task that MARS performs for our former employers; Lockheed Martin and ULA is to provide volunteers for several events they hold during the year. Each of the companies on occasion need additional help for an event and call upon us for that additional help. Our thanks to those who step up when called upon to help. The tasks range from helping organize event tickets to helping at health fairs. If this sort of thing sounds interesting to you contact one of your officers and let them know.

Remember to let us know if you become aware of a new Lockheed Martin or ULA retiree. We will then contact them and let them know of the advantages of being a MARS Member.

Don't forget to look for the hidden number in this issue of the STAR and to compare it to your member number. You could win a free years membership. Your member number can be found as a part of the address label on the envelope that carried your MARS

STAR to you or if you have misplaced the label contact one of the Officers.

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**EN:** The following is an excerpt from an article published in the spring edition of THE BENT magazine of the Tau Beta Pi Engineering Honor Society, reprinted with their premission. The original can be found at <http://www.tbp.org/pubs/Features/Sp13Bell.pdf>

## ***Profiles in Leadership***

By Trudy E. Bell

### **Norman R. Augustine: Doing the Right Thing**

*From accidental early experience to later study of great leaders, Norman R. Augustine, M.S.E., New Jersey Delta '57, has focused both on doing the right thing, and doing the thing right.*

Most of what I learned about leadership came from team sports or the Boy Scouts," stated Norman R. Augustine, whose career has included being Under Secretary of the Army, Chairman and CEO of Lockheed Martin Corp., Chairman of the American Red Cross, National President of the Boy Scouts of America, and Chairman of the National Academy of Engineering. Augustine has also led several major commissions, the most prominent resulting in 2007 in the monumental analysis of U.S. education and technological competitiveness *Rising Above the Gathering Storm: Energizing and Employing America for a Brighter Economic Future.*

"I was not an extraordinary athlete but I loved sports and always had a ball in my hand," Augustine explained. "In sports, you can learn key life lessons—about losing and recovering, about winning but not getting carried away, about the importance of teamwork, morale, and sportsmanship. And you can make mistakes in an environment where failure doesn't have disastrous consequences. People don't die, as they might from a decision you make in the army."

Born in Denver in 1935, Augustine loved the mountains of Colorado. He started camping and hiking with the Boy Scouts at age nine and, by his teens, was working summers at a Boy Scout camp leading nature hikes. By age 16, he had performed all the work required to become an Eagle Scout—the highest rank, attained by fewer than one in 20 Scouts. "It's amazing how many leaders in

corporations, government, and nonprofits are also Eagle Scouts," Augustine remarked.

### **An Accidental Leader**

Augustine attended East High School in Denver, a very good, large public school with nearly 800 students in each grade. He did well in math; loved taking clocks apart, enjoyed woodworking and building things with his hands, and excelled at all academic subjects. One day when he was a junior, a teacher he did not know called him to his office. "Justin W. Brierly was a lifelong bachelor who got a kick out of seeing how many East High School students he could get admitted to Ivy League colleges," Augustine recalled. Brierly handed him applications to Williams College and to Princeton University. When young Norm protested his family could not afford either, Brierly replied that if he got in, the college would pay his way. Someone asked his intended major. Because of his love for the outdoors, Augustine thought of becoming a forest ranger, but neither school offered forestry. "I asked: 'What would be like forestry?' The person suggested geological engineering. I had never even met an engineer, let alone a geological engineer, but that's what I wrote on the application."

Accepted by both institutions with full tuition paid, Augustine chose Princeton. A year later, when returning to Princeton on a midnight train from a date in New York City, an older classmate—also from East High—on the same train asserted that aeronautical engineering was the big up-and-coming field. "He was so compelling that on Monday I switched my major," Augustine said, "although I was scared to death I was not up to it because it was considered by many to be the toughest course in Princeton." Despite his fears, he received his BSE magna cum laude in 1957, and his MSE from Princeton in 1959 and was elected to both Phi Beta Kappa and Tau Beta Pi.

Talk about lucky timing. The National Aeronautics and Space Administration (NASA) had been formed eight months earlier, a year after the USSR had launched Sputnik I. Engineers were in high demand. When Augustine applied to the aircraft division of Douglas Aircraft in Santa Monica, he was assigned to work in research in the missiles and space division. "I loved research," he recounted. "Everyone working in missiles and space technology was young. People would come to me with questions, and I would do my best to help. Soon I was put in charge of a design group. Before I knew it, I was made a section head, then program manager, then chief engineer, and so it

went. Quite by accident, I found myself leading others."

Indeed, looking back, Augustine reflected, "My life was one huge accident! I never realized until recently that I never had a grand plan. I simply had a lot of interests. I also focused on what I was doing, not on how to advance." He is convinced that "the best way to get ahead in a career is NOT to try to get ahead. Instead, do what you are doing the best you know how and opportunities will follow. You'll be best at something you like, so choose something you love."

### **'That's How It's Done Here'**

Once finding himself at the helm, however, and being an avid reader of biographies and history, Augustine began studying notable leaders to learn what made them great. He observed certain commonalities: "They were people of great character and high ethical standards. They worked hard. They were selfless—they did not think about themselves and their careers, but of the mission to be accomplished. They looked out for others and treated everybody alike. Most importantly, as actions speak louder than words, they set a personal example."

In Augustine's view, establishing an organizational culture of character and integrity is paramount. After all, he asked, are employees "going to follow somebody they don't trust? In a dictatorship, you can force people to do what you want done, but that's not leadership." In his experience, a leader sets a tone from the top. "Smart people come into an organization, look around, see that those in authority don't cut corners or behave unethically, and think 'that's how you do it around here.'"

As an example, he cited an economically difficult time around 1984, just after he was made President of Martin Marietta Denver Aerospace. It was imperative for the company to reduce expenses. Obvious savings could be realized if managers stopped flying first class and started taking coach. "But people were working long hours and company philosophy was we hire first class people and treat them first class, so I hated to lay this on them," Augustine recounted. So without any fanfare or announcement, he personally began flying coach. Observing this, soon other managers followed suit. To everyone's amazement, more than savings resulted from flying coach: "It put our company's leaders back with our customers, giving them hours on flights to get better acquainted and discuss

issues,” Augustine recounted, “while all our competitors were isolated up front in first class!”

Later, as CEO of Lockheed Martin, whenever he talked to a group of employees, he emphasized three points: act ethically, take care of customers, and treat everyone with respect. “I never mentioned profit—to the chagrin of our Wall Street bankers,” he remarked. “I believe if you get those three main things right, profit will take care of itself.”

### **The Power of Convincing**

How different is leading corporations versus military organizations versus nonprofits? “The fundamentals of leadership across all three are surprisingly similar,” Augustine observed. The key difference is tactics. “In the uniformed military, people respect orders. In nonprofits, you can only lead by convincing. In a corporation, you do something in between.”

From his own experience; however, he feels that convincing is the most powerful. “In all three, you want to convince people why it’s important to reach a goal, and then let them figure out how to do it. You want to create an environment where everyone can excel and contribute. For one thing, everyone knows how to do their own job better than you know how to do their job. Plus, you want them to internalize your values, so they can persevere without you.”

As an example, he cited a time when Lockheed Martin was preparing a bid for a major fixed-price contract for manufacturing a tactical missile, in which competitors were to submit sealed bids to the Federal government; the lowest bidder would win the job. Their cost estimate was just completed when an envelope arrived from an anonymous, presumably disgruntled employee at a competing company, disclosing the competitor’s bid. Lockheed Martin employees realized that if they shaved a little off, they could underbid the competitor and win the contract. But they didn’t. Lockheed Martin submitted its original bid to the Federal government. And it lost the job. “But the employees did the legally and ethically right thing!” Augustine exclaimed. “More importantly, they did it without consulting me! That reveals the power of setting organizational culture. I hate losing. But I’d rather lose than cheat.”

### **Engineering as Preparation**

Engineering is “the best undergraduate education you can take to prepare for virtually any career,” declared Augustine. “It is also an enormous help in any leadership position, because as a rule, engineers work

hard, think analytically, are organized and disciplined, and don’t cut corners—after all, you can’t cheat Mother Nature!”

However, the biggest failing of many undergraduate programs in engineering, he feels, is their lack of liberal arts. “Engineers today need courses in economics and history nearly as much as they need thermodynamics. I was fortunate to study engineering in a liberal arts university, so I was required to take classes in literature, philosophy, and art—which lend different and valuable perspectives. There I also learned to write. Those things are essential to good leadership.”

Today, six years after the 2007 publication of the *Gathering Storm* report, Augustine is even more concerned about the quality of U.S. K-12 education. Worse, he sees an additional cloud darkening the horizon.

“Today our universities are greatly challenged,” he pointed out. “Throughout the 20th century, our universities were our competitive advantage. When writing our original report, it never occurred to us they could be endangered. But with the collapse of the economy in 2008, states have slashed their support to our great public universities, faculty salaries have declined, and faculty are being attracted abroad in a big international competition for talent. Our nation must reverse this if we are to continue to lead.”

### **Augustine on TBP:**

“I have found that membership in Tau Beta Pi is sort of a ‘Good Housekeeping’ seal for engineers. When I run across a member I am pretty sure they are a good engineer. Over the years I have particularly enjoyed the publications and interactions made possible with other members. I am particularly proud that my son was also a member.”

**About the Author: Trudy E. Bell, M.A.,** ([t.e.bell@ieee.org](mailto:t.e.bell@ieee.org), [www.trudyebell.com](http://www.trudyebell.com), and she now Tweets [@trudyebell](https://twitter.com/trudyebell)), is senior writer for the University of California High-Performance AstroComputing Center (<http://hipacc.ucsc.edu/>) and a contributing editor for *Sky & Telescope* magazine. A former editor for *Scientific American* and *IEEE Spectrum* magazines, she has written a dozen books and nearly 500 articles.

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## **LOCKHEED MARTIN CELEBRATES TEN YEARS OF MISSION SUCCESS FOR THE SPITZER SPACE TELESCOPE**

**SUNNYVALE, CA, Aug 26, 2013** – Ten years ago, NASA's Spitzer Space Telescope – built, integrated and tested at Lockheed Martin [NYSE: LMT] Space Systems in Sunnyvale – roared into space from the Kennedy Space Center in Florida, carrying the observatory into an Earth-trailing orbit around the sun. The Spitzer Space Telescope is a space-borne, cryogenically-cooled infrared observatory that studies objects ranging from our Solar System to the distant reaches of the Universe. Lockheed Martin Space Systems in Denver provides mission support for Spitzer spaceflight operations in conjunction with the Jet Propulsion Laboratory and the California Institute of Technology.

"We are extremely proud of our decades of work on behalf of NASA, and honored to have played such a key role in the Spitzer Space Telescope program," said Jim Crocker, Lockheed Martin vice president of Civil Space. "It is particularly satisfying because celebrating Spitzer's 10<sup>th</sup> anniversary seemed unlikely at the outset as the mission was designed to last between two and five years."

In May 2009 the onboard liquid helium supply on Spitzer was exhausted. The mission was extended; however, because the two shortest wavelength detectors in Spitzer's camera continued functioning perfectly as the observatory trailed far behind the Earth in its orbit, through the cold of deep space.

The Spitzer Space Telescope views the universe in infrared light, which is largely blocked by the Earth's atmosphere. With Spitzer, astronomers have determined that Earth-like planets form around many, if not most of the nearby Sun-like stars in our galaxy, suggesting that the potential for life might be more common than previously thought. In looking at our own galaxy – the Milky Way galaxy – the observatory has given astronomers valuable insights by revealing where new stars are forming. In addition, the infrared eyes of Spitzer are ideal for studying distant planet forming disks, and characterizing planets beyond our Solar System.

The spaceborne Spitzer observatory comprises a 0.85-meter diameter telescope and three scientific instruments capable of performing imaging and spectroscopy in the 3-180 micron wavelength regime. Spitzer has provided more than a 100-fold increase in scientific capability over previous infrared missions. Ball Aerospace in Boulder, CO built Spitzer's Cryogenic

Telescope Assembly, which includes the scientific instruments.

Spitzer was the fourth and final member of NASA's family of Great Observatories, which also includes the Chandra X-Ray Observatory, the Compton Gamma Ray Observatory, and the Hubble Space Telescope – also built, integrated and operated by Lockheed Martin. The interaction of multiple Great Observatories coordinating observations enabled a greater science return and deeper understanding as astronomical phenomena could be imaged simultaneously over many different wavelengths. Hubble, Spitzer and Chandra remain in operation.

Lockheed Martin Space Systems Company, a major operating unit of Lockheed Martin Corporation, designs, develops, tests, manufactures and operates a full spectrum of advanced technology systems for national security and military, civil government and commercial customers. Chief products include human space flight systems; a full range of remote sensing, navigation, meteorological and communications satellites and instruments; space observatories and interplanetary spacecraft; laser radar; ballistic missiles; missile defense systems; and nanotechnology research and development.

Headquartered in Bethesda, MD, Lockheed Martin is a global security and aerospace company that employs about 116,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration, and sustainment of advanced technology systems, products, and services. The Corporation's net sales for 2012 were \$47.2 billion.

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## **LOCKHEED MARTIN TEAM COMPLETES ENVIRONMENTAL TESTING OF THE SOLAR ULTRAVIOLET IMAGER FOR GOES-R SATELLITE SERIES**

**PALO ALTO, CA, Aug 5, 2013** – A Lockheed Martin [NYSE: LMT] team has completed and passed the full range of environmental tests – electrical, mechanical and thermal – for the Solar Ultraviolet Imager (SUVI) instrument that will make crucial solar measurements when it flies on the National Oceanic and Atmospheric Administration's (NOAA) next-generation Geostationary Operational

Environmental Satellite (GOES) satellite mission, known as GOES-R.

The team is on track for instrument delivery in October 2013 for integration with the spacecraft at Lockheed Martin's Space Systems facility in Denver. The advanced spacecraft and instrument technology used on the GOES-R series is expected to improve the quality and timeliness of forecasts, expanding the safety and economic benefits to the public.

"We are enormously pleased with the performance of our SUVI flight unit during these thorough trials," said Mons Morrison, Lockheed Martin SUVI program manager at the Advanced Technology Center (ATC) in Palo Alto. "We put our SUVI engineering development unit through the same battery of tests last year. That trial run enabled our flight unit tests to become more efficient and effective than ever before. We look forward to continuing our collaboration with NASA and NOAA to produce the best possible instrument- and to work side by side with our Lockheed Martin Civil Space colleagues who are designing and building the GOES-R spacecraft."

The SUVI will provide the required solar observational capabilities that enable NOAA's Space Weather Prediction Center in Boulder, CO to monitor solar activity and to issue accurate, real-time alerts when space weather may possibly affect the performance and reliability of space-borne and ground-based technological systems. Space weather can disrupt satellite operations, communications, navigation, and the distribution of electricity through power grids. These can lead to economic losses and can potentially endanger human life.

NASA's Goddard Space Flight Center, Greenbelt, MD, manages the SUVI instrument as a part of its support to the acquisition and development of the GOES-R series of satellites and its instruments. The GOES Program is managed by NOAA, which establishes system requirements, provides funding for the development and operation of the system, and collects and distributes environmental data for the United States.

Operational since 1975, the GOES program is operated by NOAA's National Environmental Satellite, Data, and Information Service (NESDIS) and is a critical part of the U.S. satellite constellation for environmental observations. The GOES satellites are a key element in NOAA's National Weather Service (NWS) operations, providing a continuous stream of environmental information (weather imagery and sounding data) used to support weather forecasting, severe-storm tracking, and meteorological research.

Along with weather forecasting, the GOES program also provides data to support space weather forecasting, public safety, and scientific researchers use the data to better understand land, atmosphere, ocean, and climate interactions.

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## From the Editor's Desk

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If you come across an error when studying your STARS, please contact us so corrective action can be taken. Send an e-mail to Tom and Linda or snail mail to MARS Associates, Attn: Editor, P.O. Box 1128, Littleton, CO 80160-1128. Thanks in advance.



## Activities Updates

By Bob Lines

([robtlines@hotmail.com](mailto:robtlines@hotmail.com))

### PICNIC

The 2013 Annual Picnic was a major success. It was a bit warm and humid, but there was no rain this year! We had the picnic on the first Wednesday of September. We normally have the picnic on the second Wednesday, but this year saw devastating floods up North. We were so lucky. We had almost 400 people at the event and all went well. Even my wife won the grand door prize. We missed getting the names of two winners, so if you won, let me know so I can include the information in the next STAR. Bennett's BBQ catered the event and as usual they did a great job. We switched beer suppliers to Davidson's and they did a fine job



too. The only glitch was in the pickup service after the event. Due to the construction on Santa Fe, the folks from Spectrum AV (sound system) and Arapahoe Rental were stuck in traffic and were late. I had asked for a 3:00 PM pickup, but it was closer to 4:00 when they got there. Many thanks go out to Bo Rodriguez for helping with the clean up.

#### Door Prize Winners:

1. Cash prize of \$300: Jean Lines
2. Cash Prize of \$100: Buck Reynolds
3. Cash Prize of \$100: John Phillips
4. Cash Prize of \$100: Lynne Knickerbocker
5. Cash Prize of \$100: Bobby Cooke
6. Cash Prize of \$50: Vincent Conca
7. Cash Prize of \$50: Irene Stone
8. Cash Prize of \$50: Randy Stites
9. Cash Prize of \$50: John Wilson
10. Cash Prize of \$50: Marilyn Nemes
11. Cash Prize of \$50: *Unknown*
12. Alamo Drafthouse Cinema gift card for \$25: Gerald Mason
13. Texas Roadhouse gift card for \$25: Clark Bragg
14. The Bistro at Aspen Grove gift card for \$25: Colleen Urban
15. Hacienda Colorado gift card for \$25: Ed Faulhaber
16. Red Lobster gift card for \$25: Norma Croucher
17. Champps gift card for \$25: John Chapter
18. The Egg & I gift card for \$10: W. Huang
19. The Egg & I gift card for \$10: Luanne Sosnay
20. The Egg & I gift card for \$10: Ed Dash
21. The Egg & I gift card for \$10: Joyce Anderson-Stites
22. Sunday brunch for two at the Garden Terrace, Inverness Hotel: Phyllis Arkle
23. Two Wildlife Experience Museum passes, value \$10 each: Don Skinner
24. Shell Gasoline gift card for \$25, compliments of H. M. Brown Auto Sales & Leasing: Ida VanBeek
25. Fragrance Pack from Sam's Club: *Unknown*
26. Panera Bread gift card for \$25, compliments of Peliton: Rex Reed
27. Panera Bread gift card for \$25, compliments of Peliton: Linda Stearns

28. Shell Gasoline gift card for \$50, compliments of Red Rocks Credit Union: Pat Lukens
29. King Soopers gift card for \$25, compliments of Hearing Rehab Center: Don Rogge
30. Water Bottle with Holster and Stadium Cushion, compliments of Kaiser Permanente: Maurice LaRue
31. Target gift card for \$25, compliments of Delta Dental: Charles Bird
32. Target gift card for \$25, compliments of Delta Dental: Dick Brier
33. Blender/Crusher, courtesy of Sam's Club: Bev Dare

#### HOLIDAY CELEBRATION

The event is set for December 11<sup>th</sup> at The Inverness Hotel. The flyer for the event is included in the mailing. Last year, we had 315 people attend for the Holiday Experience and hopefully this year we'll be as successful.



#### **Senior Fare**

By William Schrott  
([wmschrott@msn.com](mailto:wmschrott@msn.com))

The Annual Picnic was a great success, food was great, music was good, and the weather was awesome. I think everyone took time to visit our vendors to have questions answered and receive some good handouts. The door prizes provided by the vendors were a great addition to the fun time we all had.

For the first time since 2009, Delta Dental has announced an increase in rates. The rates for the top two options will increase by 9.5%; while there will be no increase in the lower option plan. Enrollment was extended to 9/30/2013 to allow people time to enroll following the announcement of the new rates. The new rates can be found on our web site [www.marsretirees.org](http://www.marsretirees.org).

Effective 1/01/2014, the rates for the VSP program will be increased by 2%. VSP stated that the increase is due to the Affordable Health Care Act. The new rates can be found on our web site [www.marsretirees.org](http://www.marsretirees.org).

MARS Officers and Board of Directors term of office expires every two years. Those terms that are ending this year are:

President, President Elect, Vice President of Activities, Treasurer, and three Director Positions  
The current President Elect will replace the current President.

All Officer and Board of Director positions are filled with volunteers. We are looking for current MARS members to volunteer for these positions. You can help to sustain current programs and/or create new programs. The pay is poor, the time involved can be long, but the reward of working for your fellow members is great.

I encourage you to volunteer. Contact any MARS Director or Officer to let us know you want to serve. Please let us know no later than 12/31/2013. If more than one person volunteers for a particular position, an election will be held. Results of the election will be announced at the March 5, 2014 Annual Meeting.



**Membership**

By Barb Espinoza  
([barb.j.espinoza@comcast.net](mailto:barb.j.espinoza@comcast.net))

**MEMBERSHIP STATISTICS**

As of October 1, 2013 MARS Associates' active membership is 1,522 including 879 seniors. These numbers reflect an increase in membership of twenty two since July, 2013. Please welcome the following new or reinstated (\*) members:

**Colorado**

Centennial Evelyn Hagedorn\*  
Sherry Westphal

	Lynn & Mark Zoller
Colo Springs	Lawrence Megalo
Conifer	Gary & Barbara Knowles
Denver	Don Petermann & Arlene Watts Paul Rodgers
Highlands Ranch	Bradley & Anne Zabel
Lakewood	Kenneth & Ritha Linenberger*
Littleton	Gary & Janet Gardner Whittak & Mercedes Huang John & Patricia Leibman Richard McLellon Judith & LeRoy Nielsen Thomas & Susan Pawlowski Denise Singer
Lone Tree	Donald & Ruth Veasman
Penrose	Cheryl & Larry Dial
Sedalia	Lavonne & Max Breite
Westminster	Garrett Mengel

**Other States**

Hot Springs, AR	Thomas & Dorothy Burns*
Merritt Island, FL	Robert & Donna Belless
Ball Ground, GA	Billy & Alene Childers
Houston, TX	Karla Bowling

**MARS Membership Unit**

MARS membership is defined in the policy manual as a family unit consisting of the retiree and spouse (or significant other), although the membership card and mailing data are in the retiree's name. In the event the retiree dies, the spouse becomes the member in his/her own name and may remain a MARS member by continuing to pay the annual dues. Senior membership status (age 75 and above) is based on the retiree's date of birth, even for the surviving spouse member.

**Change of Address, email address, or phone number?**

Please remember to include the MARS membership team in your list of people to notify when you move. We are still experiencing a number of STAR packages being returned for incorrect addresses. The United States Post Office does not forward bulk mail and MARS is charged for all returned mail.

### **In Memoriam Data**

Please contact me or Roy Kannady with any information regarding the passing of a member or their spouse. We want to make sure their passing is acknowledged in the ***In Memoriam*** section of the STAR.

Please contact: Barb Espinoza, VP, Membership, at: MARS Associates, P.O. Box 1128, Littleton, CO, 80160-1128; Phone 303-338-0338; or email [barb.j.espinoza@comcast.net](mailto:barb.j.espinoza@comcast.net).

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## **MARS Associates In Memoriam**

By Roy Kannady  
([kannadyr1@asme.org](mailto:kannadyr1@asme.org))

### ***Members***

Canby, William A. "Bill" (D: Jul 2013)  
(Survived by Lila K.)  
Littleton, CO  
[HTTP://TINYURL.COM/MARS-0852A](http://TINYURL.COM/MARS-0852A)

Clark, Johanna (D: Jun 2012)  
(Survived by Benton C.)  
Littleton, CO  
[HTTP://TINYURL.COM/MARS-3771](http://TINYURL.COM/MARS-3771)

Felix, Ernesto E. "Ernie" (D: Sep 2013)  
(Survived by Nancy G.)  
Highlands Ranch, CO  
No Obituary Published"

Hall, Grover W. Jr. (D: Aug 2013)  
(Survived by Patricia Covalt)  
Centennial, CO  
[HTTP://TINYURL.COM/MARS-3702A](http://TINYURL.COM/MARS-3702A)

Hirst, H. Charles "Charlie" (D: May 2013)  
(Survived by Elisabeth M. "Betty")  
Montrose, CO  
[HTTP://TINYURL.COM/MARS-1446](http://TINYURL.COM/MARS-1446)

Manelis, George G. (D: Jul 2013)  
(Survived by Donna J.)  
Littleton, CO  
[HTTP://TINYURL.COM/MARS-1916A](http://TINYURL.COM/MARS-1916A)

Patterson, Norma B. (D: Aug 2013)  
(Survived by Thomas D. "Tom")  
Littleton, CO  
[HTTP://TINYURL.COM/MARS-2502](http://TINYURL.COM/MARS-2502)

Skoglund, Carla J. (D: Aug 2013)  
(Survived by Louis D.)  
Littleton, CO  
[HTTP://TINYURL.COM/MARS-2070](http://TINYURL.COM/MARS-2070)

Stark, Richard M. "Dick" (D: Jul 2013)  
(Survived by Koann)  
Littleton, CO  
[HTTP://TINYURL.COM/MARS-2334A](http://TINYURL.COM/MARS-2334A)

Tomlin, Ruth W. (D: Aug 2013)  
(Survived by James W.)  
Littleton, CO  
[HTTP://TINYURL.COM/MARS-1369](http://TINYURL.COM/MARS-1369)

Trinrud, Orwin S. (D: Jul 2013)  
(Survived by Eileen Spencer)  
Lakewood, CO  
[HTTP://TINYURL.COM/MARS-0932A](http://TINYURL.COM/MARS-0932A)

### ***Non-Members***

Eaton, William S. "Bill" (D: Jun 2013)  
(Survived by Barbara)  
Centennial, CO  
[HTTP://TINYURL.COM/MMCLMC0412](http://TINYURL.COM/MMCLMC0412)

Jensen, Owen E. "Juice" (D: Aug 2013)  
(Survived by TerryL)  
Colorado Springs, CO  
[HTTP://TINYURL.COM/MMCLMC-0146](http://TINYURL.COM/MMCLMC-0146)

Kessler, Robert B. "Bob" (D: Aug 2013)  
(Survived by Treva L.)  
Larkspur, CO

Kamsler, Margaret K. "Marty" (D: Jul 2013)  
(Kamsler, William F.)  
Highlands Ranch, CO  
[HTTP://TINYURL.COM/MMCLMC-0143](http://tinyurl.com/mmclmc-0143)

Rotruck, Benjamin T. (D: Jul 2013)  
(Survived by Emily Ann)  
Englewood, CO  
[HTTP://TINYURL.COM/MMCLMC-0144](http://tinyurl.com/mmclmc-0144)

Taylor, Vess James (D: May 2013)  
(Survived by Mary Lou)  
Centennial, CO  
NO OBITUARY PUBLISHED"

Mossman, Emmet A. (D: Aug 2013)  
(Preceded by Ruth C. (Nov 2011)  
Denver, CO  
[HTTP://TINYURL.COM/MMCLMC-0145](http://tinyurl.com/mmclmc-0145)

Stumpf, Marie A. (D: Aug 2013)  
Denver, CO  
[HTTP://TINYURL.COM/MMCLMC-0148"](http://tinyurl.com/mmclmc-0148)

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## Historian's Corner

Ray Ziehm (POC)  
([rzandmm@comcast.net](mailto:rzandmm@comcast.net))

### Early Days: A Colorado/Littleton Snapshot

By Bill Cossaboom  
([cwilliam28@comcast.net](mailto:cwilliam28@comcast.net))

*For this issue of the newsletter, I thought a glimpse of the early days of Lockheed Martin in Colorado/Littleton would be fun....how the company came to Colorado/Littleton and some of the changes Littleton subsequently went through. In 1955, what would become Martin Marietta and later, Lockheed Martin was the Glen L. Martin Company (GLM). I will refer to GLM in this article. My thanks to the history department at the United States Air Force Academy for their assistance.*

#### Coming to Colorado

The Air Force Academy was established in 1954 in Colorado Springs, CO upon the recommendation of the Stearns-Eisenhower Board formed in 1948. Dr. Robert Stearns and Gen. Dwight [Ike] Eisenhower were the chairmen. The board recommended the

Colorado Springs location for the new Air Force School after the Air Force was established as a separate service in 1947. Although the geography of Colorado Springs was paramount due to cold war considerations of the time; it probably did not hinder the selection process that Ike had married Mamie Geneva Doud in Denver on July 1, 1916. The Doud family home was located at 750 Lafayette Street (shown below).



Mamie, through visits home to her family in Denver, introduced Ike to Colorado. Ike saw Colorado's possibilities for national security, and he also enjoyed Colorado's great climate and overall quality of life.

Meanwhile, GLM was looking for a new site from which to build and test its new Titan Inter Continental Ballistic Missile. Since the company had critical contracts with the U.S. Air Force, being in close proximity to the customer would be a plus when selecting a site.

#### Coming to Littleton

GLM decided upon Waterton, a part of Littleton CO; as their location for the satellite facility. The site was selected based upon its hog-back protection, remoteness, land availability, nearness to the burgeoning Air Force Academy, and other considerations which were in accordance with the concerns of the time. My father, Richard B. Cossaboom Sr. was on the Littleton City Council at the time GLM addressed the city council for required zoning. Thankfully, Dad voted for the zoning change to allow for construction of 'the little city'. (The City of Littleton does envelop some of Jefferson and Douglas counties besides Arapahoe).

Construction of the Waterton facility provided jobs for both local and out of state contractors and construction workers, many of whom stayed in Littleton after the project was completed. By 1956 we see that the Engineering Building and the

Factory appear to be well under construction (as shown below).



Economically, GLM had a profound impact on Littleton. An immediate impact came in the early years when the establishment of this major employer brought a 'population boom' to Littleton which precipitated housing construction, major road work, and the transformation of Littleton from a sleepy bedroom community of Denver to a major suburb.

The population of Littleton in 1955 was about 3,000. Up to that point, the major employers in Littleton were the C.A. Norgren Company (still in existence at 5400 S. Delaware St.) and Marathon Oil (formerly in the 7400 Block of South Broadway). At the beginning of construction, local newspapers published estimates that the plant GLM was building was described as 'massive' - would eventually employ 18,000 people within 5 years. By 1965, Littleton population had increased to an estimated 9,000 or about triple the population of just 10 years earlier.

After legal requirements were in place, things began to happen - for both GLM and the City of Littleton. Among the first was a motel on South Santa Fe Drive, named the Titan Manor, constructed so that visiting executives from GLM headquarters in Baltimore MD could shorten their commute to the project, instead of having to stay in Denver proper. Today, this motel gives the appearance of being in disarray, located on the west side (of a less than desirable stretch of S. Santa Fe Drive. Most people passing by would not even bother to look at it, much less entertain staying there. But next time you go by, look for the sign to the motel and remember its purpose for being built and it's 'glory days'. I believe it still has a Titan Rocket on the sign.

While the plant was being built, GLM began transferring employees from Baltimore and hiring employees in the Denver area. The current location of the Arapahoe Community College Art and Design Center, at the corner of Alamo and Prince in downtown Littleton, was the temporary site until the plant was ready for occupation. The Coleman Company held most of the land and buildings, and GLM apparently leased the site from Coleman. There was an underground tunnel between the North and South buildings, and the cafeteria (which I am told served the best chili and hamburgers) was located across the street at the current location of the Littleton Light Rail Station. In fact, it was not unheard of that workers would give their home packed lunches away so that they could go across the street to the cafeteria! There were also direct rail lines into the Prince Street facility which assisted the GLM move. Of course there have been many modifications. (See below for a current site picture of the Prince Street location.)



I remember being at the stoplight of Prince and Alamo with my mother during this time-frame and the plant 'letting out' first shift. All of a sudden, the street seemed packed with people. "Who are all these people?" I exclaimed. Mother told me that they all worked for the 'Martin Company'. I was amazed at the 'masses of people exiting the facility.

As the Waterton facility progressed, so did changes within the Littleton community. For the most part, Littleton proper had confined itself east of the Platte River (Santa Fe Drive). The decade following the mid-50's saw expansion occur on the West side of the river. "Happy Homes", a housing development bordered by Bowles Avenue on the south, Lowell Blvd. on the west, and Santa Fe on the east, are solid brick homes dating from about 1962 which were built to accommodate the influx of residents to Littleton. "Columbine Valley" was developed from the "Columbine Country Club" and was incorporated in 1955 in time to provide a golf course and higher priced homes for GLM executives. The area began incorporation with 17 homes, and now there are

500 homes in the valley. The first home was occupied in 1956.

By 1965, "Normandy Estates" was another burgeoning upscale community (the first in Littleton to offer covenants) which attracted many GLM employees. "Normandy Estates" is located on the West side of Platte Canyon in an area between Bowles and Ken Caryl Ave.

"Woodlawn Shopping Center", located at the corner of S. Windermere St. and Littleton Blvd., started in earnest in 1955. This shopping center would include clothing, jewelry, produce, ice cream, a drugstore, a movie theatre, and other retail establishments to serve the growing population of Littleton. The shopping center celebrated its 50<sup>th</sup> anniversary in 2006. My grandfather, Arthur Johnson was known affectionately as the 'Mayor of Woodlawn' in his obituary written by 'House' Waring, publisher of the Littleton Independent/Arapahoe Herald in 1973.

The Centennial Race Track, dubbed the "Santa Anita of the Rockies" opened in 1950 and provided horse racing entertainment to many of the new residents of Littleton. The track closed in 1983. Members of the "Keep Denver Dumb Club" (a Littleton euphemism for those who were seemingly opposed to growth, modernization, and knew what was 'good') opposed the track. But the track did flourish. The track was located on the east side of Federal, between Belleview and Bowles. (See below).



Along with the "Santa Anita of the Rockies" came a new restaurant/lounge to Littleton, located on S. Santa Fe Drive. The "Santa Anita Lounge and Restaurant" was among the first 'modern' building Littleton had seen! The Santa Anita had a sloping roof and almost floor to ceiling windows. The restaurant served good meals in a modern atmosphere and was favored by GLM employees. Never a 'dive' or a 'bar' the Santa Anita offered

employees a relaxed atmosphere in which to wind down or continue business discussions.

Littleton had one high school (Littleton) in 1955. By 1963 the need for a second high school (Arapahoe) was necessary, in part because of the influx of GLM employees to Littleton.

Littleton had and would continue to prosper through the 'good' and 'lean' times of GLM. GLM and Littleton have made a good partnership throughout the 50+ years that GLM has been in our community. Good businesses build other good businesses. The number of service industry businesses that GLM brought to Littleton cannot be underestimated. GLM has been an influential partner to Littleton providing not only business opportunities, but leadership in the community from city council members, state legislature representatives, and community volunteers. Maybe more on that in a future issue.

If you have any favorite memories of the early days of GLM and Littleton, please forward them to me, so we can generate a more complete history for posterity.

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## Bridge Club

By Dave & Kathy Martz  
([martz20@comcast.net](mailto:martz20@comcast.net))

***Bridge Humor: There is the old story about a doctor who used bridge in therapy for his patients. If they didn't play bridge, he advised them to take it up, explaining: "It's a great mental challenge, a way to exercise the mind and expand your social circle." If they already played, he advised, "Give it up. It's too stressful". The MARS bridge group is just a lot of fun!***

Please come join us at our monthly get together! All MARS members are welcome. We play on the **3<sup>rd</sup> Friday of each month at the Buck Community Recreation Center (Littleton) from 10 AM to 2 PM** (pack your lunch). The club provides the cards and all requirements for the games, as well as coffee, tea, and hot water for your enjoyment.

We have couples, as well as singles, playing. If you don't have a bridge partner, the club can assist in finding one for you, if you let us know in advance.

If you have any questions, please contact any of the following Bridge Club Officers:

Presidents:

Dave & Kathy Martz, 303-683-9524

Vice-President:

Bill Kacena, 303-973-2685

Secretary:

Theodore Bornhoeft, 303-933-9730

The 3rd Quarter 2013 winners are as follows:

### July 19 (4 tables)

- 1<sup>st</sup> – Paul & Marie Stanton
- 2<sup>nd</sup> – Joe Pohlen & Maurice Larue
- 3<sup>rd</sup> – Fred & Mary Ems
- 4<sup>th</sup> – Ernie & Cecile Berliner

### August 16 (3 1/2 tables)

- 1<sup>st</sup> – Joe Pohlen & Maurice Larue
- 2<sup>nd</sup> – Fred & Mary Ems
- 3<sup>rd</sup> – Paul & Marie Stanton

### September 20 (4 tables)

- 1<sup>st</sup> – Loman & Pat Park
- 2<sup>nd</sup> – Theodore Bornhoeft & Trudy White
- 3<sup>rd</sup> – Bill & Connie Lutes
- 4<sup>th</sup> – Ed & Laurie Bock

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## Dinner Club

By Dave & Carol Zeller

[nana\\_x8@q.com](mailto:nana_x8@q.com)

The Dinner Club has been enjoying excellent participation each month, and we look forward to continued success. We're also receiving suggestions from members for new venues to try out. We really appreciate and encourage your input.

We are fortunate to have a couple graciously come forward to sponsor our group for continuing access to Mt. Vernon Country Club. Many thanks!

Venues booked so far for 2014 are as follows:

- January 14 **Elephant Bar**, lunch
- February 12 **The Bistro at Aspen Grove**, lunch
- March 12 **Hacienda Colorado**, dinner
- April 16 **Pinocchio's Restaurant**, dinner

Given the huge response we receive each month, sending in your reservation and check as soon as possible is highly recommended.

**Please remember that it is preferred that you send a single check to simultaneously reserve spaces for multiple Dinner Club events.** Please do not combine Dinner Club events with other MARS events; those go to a different address. Also, **please remember to include the name(s) of guest(s) on the reservation slips.** This will greatly simplify preparation for your events.

We are very conscientious about taking and returning phone calls from all members concerning any questions, problems, or issues. However, you may get our voice mail for any call that comes in "blocked call" or "private caller." We will always respond to your messages promptly, so **do leave a message.**

Have a beautiful (and comfortable!) Fall!

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## Golf League

By John Alfeld

[johna70@cpines.net](mailto:johna70@cpines.net)

Report for July - September 2013

After the rough weather in April, we have enjoyed good, albeit hot weather for most of the season. We hadn't had a cancellation until 12 September when we received about a "year's worth" of rain in a couple of days. Golfer or not, I'm sure everyone remembers that. We have about a month to go and are hoping we will have a more amenable weather situation. The golf league highlight of this quarter was the annual league championship. It is held over a two-week period in August at the Broken Tee and Common Ground courses. The combined net score of the two rounds determined the overall winner. This year, Allen Sanders took home the big prize. He will have the traveling trophy for his mantel for the year. Congratulations to Allen and the other top finishers: Dan Tushar, John Flemming, Leo Johnson, Bob Bowe, and Paul Boykin. The precision hitters in the Closest-To-The-Pin competition were: Dick Brier, Bob McFarland, Dan Tushar, and Don West. Paul Boykin won the Medalist competition for the lowest total gross score. Congratulations to all.

## Photography Club

By John Flater  
([jfflater@msn.com](mailto:jfflater@msn.com))

The MARS Photography Club meets the second Thursday of every other month at 1:30 PM in the Littleton Bemis Library meeting room. Sometimes room scheduling conflicts arise and the meeting date may have to be changed. The most current schedule can always be found on the main MARS web site as explained at the end of this report. Normally scheduled meetings for the year are February, April, June, August, October, and December. Meetings always feature a program of projected images presented by members or invited guests. **Visitors are welcome even if they are *not* "photo geeks"**.

At many meetings, the subject of the presentation is a **TRAVELOGUE** in which slides or video of a vacation are shown and the presenter adds narration. If you enjoy seeing images and hearing experiences from others' travel vacations, give the MARS Photo Club a try. After the program we have a coffee break during which members share travel and photography tips.

Some programs are related to photographic techniques and tools and are illustrated by slides, prints, and/or equipment. If you and/or your significant other are interested in film or digital photography, join us for interesting programs, fascinating photos, and an opportunity to upgrade technical and creative photographic skills by sharing knowledge and experiences. New members and guests are always welcome at our meetings, so bring a friend if you like. Ideas, comments, and suggestions for programs are appreciated.

In addition to the presentation, our meetings usually include a competition of images taken by club participants. The image subject matter may be Open (any subject) or for some competitions a specific subject matter. The competition prints category may be in color and/or monochrome (usually black and white). A participant may submit up to three prints. Awards for 1st, 2nd, 3<sup>rd</sup>, and Honorable Mention may be made depending on the number of images entered. Entries are judged and critiqued by invited judges or club members. After each meeting competition, the **Photography Club** page (section) of the MARS web site <http://www.marsretirees.org> is updated to show thumbnail images of the winning pictures and future meeting topics.

### Recent Meetings

### Thursday, August 8, 2013

Susan and Lee Janssen presented a **TRAVELOGUE** DVD of their "**Scuba Diving the Philippines 2009**". The presentation as Sue originally planned was to show images from only one of the several dive sites they experienced, but there was so much interest by members present that Sue had to show images from other sites. As the range of sea life types and sizes they photographed at the different sites was displayed, it invited many questions and discussion. One of these sea life types "Glass Shrimp" can be seen in the photo club section of the MARS website where Sue's 2<sup>nd</sup> place image is displayed. Of course the members were also interested in the "camera hardware" that was used and Lee was glad to "show and tell" this and answer questions about it.

After the presentation the club's regular photo competition was judged by Fred Luhman. The subject was "**Foreign Travel**" and winners were:

1 <sup>st</sup> place	"Career Position" - Jack Rombach
2 <sup>nd</sup> place	"Glass Shrimp" - Sue Janssen
3 <sup>rd</sup> place	"Canoes at Emerald Lake" - Larry Stearns
Honorable Mention	"Darwin Remembers WWII" - John Flater
Honorable Mention	"Cappadocia Apartments" - Jack Rombach

### Future Meetings (as now scheduled):

### Thursday, October 10, 2013

The presentation will be a **TRAVELOGUE**, titled "**A Photo Excursion to London, Norway, Iceland and the Faroe Islands, 2013**". **Presented by John Chapter**, the cruise was on the Cunard Queen Victoria from June 14 to June 30, 2013.

Meeting competition subject is **Open**.

To verify future meeting dates, competition subject and program topic: go to the main MARS web site <http://www.marsretirees.org>, then - click "**Photography**" on the Clubs button at the lower left to get the photo club's webpage. Here you'll see **Check the Meeting Schedule below**. If the Program has the word **TRAVELOGUE**, it's a vacation show-and-tell; the Competition topic is also listed. Come and enjoy both.



**Competition reminder:** Meeting photo competition entries may be prints as small as 4"x 6" to make it more practical for those using digital cameras to print images on their own printers. All submissions must be affixed to a mat board/cardboard or foam backing of at least 8"x10" or as large as 16"x20" for ease of handling and display.

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## Hiking Club

By Sue Janssen  
([susan.g.janssen@gmail.com](mailto:susan.g.janssen@gmail.com))

Seven folks made the 1.5 mile trek from Shrine Pass to Shrine Ridge on 17 July. The wildflowers were spectacular, thanks to cool, wet weather in the high country. We enjoyed a sunny, leisurely morning on the well-maintained trail. After the hike, the Berry's continued over the pass to Redcliff. The rest of us enjoyed lunch and a beer in Frisco at "The Lost Cajun."



Hikers enjoy the view from Shrine Ridge. Left to right: Sue Janssen, Lenny and Jill Demchak, Linda and Bob Berry, Tom Pawlowski, Lee Janssen.



Wildflower display of lupine, Indian paintbrush and arnica.

The August and September hikes were cancelled due to schedule conflicts, but we may be able to reschedule – check the hiking club website. Linda and Bob Berry are the points of contact for the hike at Castlewood Canyon State Park on 16 October.

Summer has ended but the hiking season has not. We plan to hike in the winter. Join the group on 20 November to plan the winter outings. We will meet at the Littleton "Egg & I" (2630 W Belleview Ave, just west of Santa Fe) from 8:30 – 10:30 am to enjoy brunch while we decide where to hike and snowshoe – RSVP to Sue by 18 November.

If you wish to join the MARS Hiking Club, contact Sue Janssen at [susan.g.janssen@gmail.com](mailto:susan.g.janssen@gmail.com), who will add you to the club's distribution list. The schedule of hikes is posted on the MARS website (<http://www.marsretirees.org/>). Happy trails!

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## The MARS Associates Website

By Jim Kummer  
([jkummer@comcast.net](mailto:jkummer@comcast.net))

Recently I received an email offering to "analyze my computer and provide improved performance". Normally I'd be skeptical of such an offer, but in this case, it came from Dell, from whom I'd purchased the computer. Their information regarding my computer model convinced me that they were trustworthy. In general; however, such offers can be very dangerous. At best they'll offer no-brainer suggestions for which they'll request payment. At worst if you pay them, they might steal your credit card, and/or they might plant a Trojan horse in your computer that would give them access to your files, bank account, brokerage funds, etc. Another play

they'll use is to email you, or even telephone you, and assert that your computer has been invaded by a malicious virus, and you should go to a website for treatment. Be very careful before accepting any offers of this type, because they may be ill-intentioned.

When downloading or updating legitimate products, you may also download some tag-along products that you may not want. For example, when Java (required for your browser) is updated, they will automatically download and install Google Chrome – unless you take action to prevent it. Read the installation instructions carefully. Sometimes there will be checkboxes you can deselect to eliminate unwanted downloads. Sometimes you need to select "Custom install" (or something similar) before you can see the checkboxes. If you have asked yourself – Where did that come from? - this might explain it.

At the MARS website, [www.marsretirees.org](http://www.marsretirees.org), you'll see topical and timely information valuable to members. Each month there is offered a Site of the Month for member's education and enjoyment. Here are the monthly sites of the month from the last quarter- these you'll find interesting, and we're sure they're free of virus and malware.

July –  
Extensive Resource for Many Alternative  
[Options for Senior Housing](#)

August –  
Humorous Senior Repast at  
[geezeerguff.com/](http://geezeerguff.com/)

September –  
It's been a year since  
[Curiosity Rover's MARS landing](#)

A list of previous Site-of-the-Month offerings is available, on the MARS website, at the link just below the current offerings. If you recall one that you'd like to revisit, click on this link.

Your website committee members are: Paul Bingham, Duane "Smitty" Smetana, Bob Knickerbocker, Linda Stearns, and Jim Kummer (Webmaster).

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## Denver News / What's New

By Pat Kenning  
([patamk@yahoo.com](mailto:patamk@yahoo.com))

No article submitted this quarter.

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## RAMM – Baltimore News

By Dottie Ruth  
([dotruth725@comcast.net](mailto:dotruth725@comcast.net))

The Baltimore RAMMs had our picnic in June and about 71 retirees were able to attend. The weather was sunny and hot so the icy-cold watermelon was a popular item. Why does watermelon seem so much sweeter at a picnic? I guess it's like hot dogs – they always seem tastier at a ball game.

Four zero zero five.

Our membership drive is on right now and we are hoping we don't lose anyone due to health problems. We are thankful for the many that can't make our meetings, but still remain faithful members of the RAMM organization.

The committee for our Christmas party is busy and members are signing up early for their tickets. I love sitting at the door at this affair collecting tickets and eying the wild Christmas ties the men are wearing. I still claim the older generation has more fun at parties than the young whippersnappers.

The Aircraft Committee of the Glenn L. Martin Maryland Aviation Museum has been busy this summer. One big event was the Open Cockpit. On the fourth Saturday of the month, from April to August, five or six planes were opened for visitors, both young and old, to climb in and sit in the cockpit.

The T-34C, on loan from the Navy arrived in May and was on display. The Commemorative Air Force came in June with its B-29, C-45, P-51, and SB2C. A set of stairs was built so that visitors could get into the cockpit more easily. With the good weather, there was between 100 and 200 visitors at each event.

Artist and Illustrator Robert Hunt visited the Museum and donated a painting of a Martin RB-57A flying over Alaska, a beautiful plane.

The RAMM organization publishes a monthly newsletter and we are fortunate to have it posted on the MARS website. We invite you to learn a little more about us and the small state of Maryland where we are proud to reside.

([www.marsretirees.org](http://www.marsretirees.org)) Look for it on the main page under "News from Other Retiree Groups."

Until the next time, have a Happy Thanksgiving and a very Merry Christmas.

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## Cape Canaveral News

By Dick Olson

([Olsons5145@aol.com](mailto:Olsons5145@aol.com))

July luncheon - Really had a slim turnout for our July luncheon. I guess vacations and the switch of dates from the 4th to the 11th resulted in a bunch of no-shows. We will be back on our regular schedule in August (first Thursday of the month). Present were Nick Geso (recovering from a bout with pneumonia), Jerry Moskovitz, Wendell McDaniels, Larry Gleason, Bill Rhode, Brooks Killgore, Don Anderson and Ken Girard.

As I mentioned last month, Bob Rodamer and I plan on holding an "Old Car BBQ" in November, but I haven't made up a flyer yet.

August luncheon - Had a much better turnout this month, twenty eight folks. Hal Penly made his first luncheon since he retired, Herb Matthias made a rare appearance, hadn't seen Dave Tufts or Bill Case for ages, and Roger Wright, Ray Hall, and Roger Schmidt haven't been here in a while either. Regulars Wendell McDaniels, Bill Rhode, Hal Castleton, Abe Smith, Joe Kirpolski, Don Anderson, Chris Hutchmacher, Walt Starkey, Bob Rodamer, Nick Geso, Matt Masterson, Mike and Roy Hunter, Larry Gleason, Judy Klien, Dick Hinshaw, Jerry Moskovitz, Larry Cuppet, Jimmy Weddle, and Ken Gerard.

September luncheon - Had a pretty good turnout for lunch, about 30 people. Some that we haven't seen for a long time were Jerry Teague, Brad Bradshaw, Janet Oaten, Vince Alderman and Sid Warren. Regulars were Dave Kintigh, Don Anderson, Roger Schmidt, Hal Penely, Abe Smith, Bill Rhode, Roger Wright, Larry Cuppet, Walt Starkey, Jimmy Weddle, Nick Geso, Hal Castleton, Larry Gleason, Matt Masterson, Jim Cotton, Ed and Guy McMechen, and Ken Girard.

Two former Titan Team members recently passed away and I somehow missed their obituaries. They were Quality inspector Bill Hendry and Dale Henry.

Report on Eddie Roberts. He fell and broke three or four ribs and after some time in the hospital they were able to send him to a nursing home to recover. That same day he developed chest pains and now is back in Wuestoff in ICU. Will keep you posted as I learn anything new.

October luncheon - The attendance was kind of light this month, only about 18 people most all of them regulars. Ed and Guy McMechon, Marty Blankinfield, Dick Hinshaw, Cal Moser, Abe Smith, Cecil Snipes, Don Anderson, Bob Rodamer, Bill Rhode, Nick Geso, Larry Gleason, Jerry Moskovitz, Jimmy Weddle, Brooks Kilgore, Ken Girard, and Herb Matthias (second month in a row).

Cecil reported that Butch Ford had been in the hospital with some heart problems, but is now home and doing better.

Eddie Roberts is home from the hospital after surgery to install plates to anchor his broken ribs. He is getting around slowly.

With the government shut down KARS Park is closed. We will wait and see how this affects our BBQ on Nov. 2nd. Hopefully things are straightened out by then and we will see you at the BBQ.

I printed-out a few copies of the Cape Titan Team Deceased List that Carl Welton started and that I have been trying to keep current. It generated a lot of interest and comments so thought I would attach it to these notes. If you see your name on it and it shouldn't be, let me know (also any other additions, deletions or corrections).

## Deaths prior to January 1997 or dates unknown

Ed Smith	Jim Burgess	Robert Gordon
Mary Minor	Dick Cromwell	Otto Fenske
Neil Jones	Harold Lebow	Bill Dimoush
Richard Freeman	Don Andrus	Ed Rogers
Thurston Langford	Jim Peters	Betty Applegate
Hank Groncki	Bill Duff	John Young
Jim Dunham	George Taylor	Jim Chambers
Ralph Foley	Lew Tatzin	Art Hoenes
Ed Gladkowski	Gar Haney	Steve Androsko
Bob Gibson	Mike Skoran	O.E. Tibbs
Frank Carey	Joe DiGristine	Floyd Brown
L.B. Smith	Art Fisher	Jim Davis
Jim Cotton Sr.	Gil Fuhrel	Ed Munnell
Hugh Harshman	Bob Allen	Joe Taylor
Ben Ricky	Jerry Hardeman	Kit Grant
Harvey Clifton	Jesse Graham	Tom Munro

Jill White	Herb VanSchaick	Jose Parrish
Fred Robinson	Orval Dickenson	Ken Trout
John Hett	Marty Bloecker	Myrtle Simpson
Jim Way	Eleanor Saluter	Chuck Green
Kim Powell	Al Rios	Lou Bargis
Ted Meier	Harold Wilmer	Joe Knight
Elmer Questa	Troy Loveland	Ed Phillips
Ted Danials	J. D. Murphy	Woody Kern
Dan Quisenbery	Dave Astor	Art Prior
Bill Pemberton	Murray Newsome	Frank Reed
Ted Davenport	Al Moleski	Whitey Janda
G.T. Willey	John Krall	Neil Wolfe
George Becker	Bob Gieger	Earl Boutilier
Willis Wyns	Ann Holland	Ernie Law

## 1997

Ron Frevert	John Konarski	Ted Allen
Ed Blich	Harry Seabolt	Cathy Stone
Robert Harvey	Jim Stacharowski	Sam DiSaverio
June Cartee		

## 1998

Leo Karner	Marshall Smith	Mack Cannon
Dennis Langley	Mike Rondea	Mickey Sliney
George Meyer		

## 1999

Jim Kershner	Dave Mackey	Vic Butkis
Harry Solana	John Nester	Bob McKinney
Bob Jimmerson		

## 2000

Sam King	Harold Senter	Lou Vittor
Carl Stewart	Bud Ennis	Carol Joiner
Dan Wall		

## 2001

Harold Kidd	Walt Kollosh	Bill Shillingsburg
Jim Stoms	Bubba Watkins	Joe Freeland
Mary Knittel	Jim Fordham	Roy Heim
Hans Grabbe		

## 2002

Jim Hooker	Virginia Roxby	Stan Livingston
Gene Spruill	Colon Blackburn	John Randle
Joe Hostetler	Bill Gilliam	Jack Gilbert
Cliff Walker	Dale Hickenbottom	Ted Augustine
John Stiene		

## 2003

Stan Albrecht	Charlie Cook	Chuck Dwyer
Charles Berkebile	Ray Miller	Ed Holt
Don Haas	Don Dillenbeck	

## 2004

Don Roxby	Fran Boxler	Don Bradley
Art Finkcenbinder	Jim Coln	Vanessa Haynes

Gene Quillen	Morris Worland	Art Winckel
Ray Gump	Felix Scheffler	Andy Hall
Willis Wyns	Harry Hobbs	Art White
Bill Haberhern	Darrell Heckart	John Suttle
George McGee		

## 2005

Aubrey Butts	Johnnie Collins	Jim Linville
Art Inman	Mike Johnson	Mary McCoy
Claude Taylor	Don Barnes	Jimmy Crumme
Les Griner	Jack Cunningham	Charley Furr
Abe Freels	Rick Wagner	Ed Moxham
Wilson Torrence	Eva Griffith	Jim Sanders
Bill Downey	Charley Poe	

## 2006

Roy Everett	Charley Vogt	Cy Holly
Jim Burkett	Russ Batchelder	Ben Mac Neill
Sandy Blades	Bob Fogal	Ron Middleton
Ernie Dresser	Ira Thompson	Diana Corlew
Mert Kindt	Wally Sultz	Virginia Reed
Doris Rogers	Bob Pelzel	

## 2007

Ray Thibault	Henry Forrester	Harold Wilmer
Richie McConahy	Howard Earles	Ramona Flood
Vern Derby	Flo Andres-Brown	Herb Hearn
Herman "Fritz" Widick	Gene "Birdie" Redman	

## 2008

Merrill Kosier	Dick Webber	Pat Weatherford
Charley Rinehart	Fred Marshall	Shirley Carpenter
Emil Janda	Forbes Hays	Arch Smith
Jack Muldowney	Frank Pilachowski	Jim Kerarns
Jim Wilson	Bob Adcock	George Gabik
Chuck Carnahan	Al Breymaier	Granny Goad

## 2009

Walt Lowrie	Joe Lohman	Doug Heckart
Jimmy Weeks	John Passamonte	John Webster
Joe Brazier	Ralph Harriman	Eddie Boswell
Bob Shuemaker	Ed Stephenson	Frank Henderson
Bill Alcock	Jerry Gonsalves	Harold Burshell
Wayne Preston		

## 2010

Jack Hagan	Ken Jeffers	Sam Manuel
Joe Kainer	Barbara Andrews	Milo Fox
John Adamoli	Norm Roulston	Marc Day
Eddie Thompson	Wally Perkins	Earl Dunn
Dale Polk	Sudie Lewis	Ralph Taylor
Harriet Stoneburner		

## 2011

Dean Willoughby	Nick Cruke	Tom Stanker
Joel Hagan	Jesse Buggs	Carl Welton
Tom Melcher	Paul Daymude	Chuck Cartee
Joanne Nagel		

## 2012

Earl Johnson	Sherry Hoag	Forrest McCartney
Lowell Schell	Bob Listy	Ken LaBorde
Lowell Chisholm	Ann L. Barnett	Joe Verlander
Frank Basista	Frank Brabaw	Norm Hubbard

## 2113

Harry Holmes	Bob Moore	Pete Kelleher
Rick Nichols	Claude Cornett	Ron Halcomb
Dale Henry	Bill Hendry	

Claude M. Cornett died in Baltimore, returned to Elk Creek, VA where he was laid to rest. May you RIP Claude. Claude worked in the machine shop for many years.

Ron Halcomb passed away at age 80 in Tallahassee on August 22nd. Ron was the Titan Safety group Chief for several years before transferring to Denver. <http://www.faithfuneralhome.com/sitemaker/sites/faithf0/obit.cgi?user=1069679Halcomb>

John Edward Carpenter was a former Launch Conductor (Test Conductor in his day) on the Titan IIIC program when I transferred to the Cape and was one of the coolest heads I ever knew. Services for Ed were held on Sept 13, 2013.

Raleigh Thomas "Tom" Hornsby, 65, of Port St. John, died Friday, Sept. 13, 2013. He was born in Hamilton, Ohio, to Raleigh Vay and Elizabeth Margaret Hornsby on Jan. 11, 1948.

On Dec. 26, 1969, he married Mary Lee Lowie-Hornsby. They had four children and 12 grandchildren. Tom is survived by his mother, Elizabeth Margaret Hornsby; wife Mary Hornsby; daughters Elizabeth Laura Campbell, Diane Yvonne Sangalang and Cassiopia Star Hornsby; son Raleigh Thomas "Trey" Hornsby III, and grandchildren Chancellor and Chynna Carmichael, Elijah, Ethan, Emmerly and Evelyn Sangalang, Chastity, Courtland and Bryan Cooper Campbell, Ezekiel Tierney, Lana Hornsby, and Phoenix Alexander.

Tom was a 6-year veteran of the U.S. Coast Guard and achieved the rank of Engineman 3rd Class aboard the USCGC White Sumac.

design of the space to highlight the objects and represent the Lockheed Martin brand.

He spent a great deal of his life dedicated to education. He received several degrees including a bachelor's degree from Florida International University and master's degree from UCF. He touched the lives of many students as an auto mechanics teacher at Cocoa and Merritt Island high schools. Tom was also a facilities manager for many companies including General Dynamics, Lockheed Martin, Martin Marietta, the Dolphin Hotel, and various government contractors.

Harry Packer indeed retired. He had been quoted as saying "no party when I came in, no party when I go out ..." Friday, 8/2 was his last day of employment. He will have ~~spent 57 years in Aerospace. Our~~ best wishes during his retirement.

## REALM (Orlando News)

([realm.fl.news@gmail.com](mailto:realm.fl.news@gmail.com))

Andrea Lawrence (POC)

([andrea.j.lawrence@gmail.com](mailto:andrea.j.lawrence@gmail.com))

### History Lives on in the Lockheed Martin Museum

#### Historical museum opens at Lockheed Martin facility in Orlando

By Dani Hauf, Lockheed Martin Communications

This project began as a part of the celebration of the Lockheed Martin Centennial in 2012 and the goal was to have a tribute to how Lockheed Martin contributed to the corporation's overall legacy and specifically the part Missiles and Fire Control played in the history of the Central Florida community.

A majority of the artifacts were on loan to the Orange County Regional History Center in 2007 for the Orlando Remembered: The Legacy of the Glenn L. Martin Company exhibit. To expand the collection, a small employee-led committee worked to collect additional memorabilia from current and retired employees across the company. Also, this team worked on the layout and

"I would like to take a moment to recognize the Museum Committee for their tireless efforts in making this a reality," Rick said. "This museum represents what our employees have accomplished over the years, and it will be a place for those who come after us and visitors to learn about our strong heritage in Central Florida."

University of Central Florida (UCF), President Dr. John Hitt, was one of the first to visit the museum after the ribbon cutting. As UCF celebrates their 50th Anniversary this year, the historical reflection was timely.

The museum has display cases along with video screens displaying historical and product videos. The displays include a variety of artifacts like several Pershing Missile models and imagery, LANTRIN models, and a life-size display of the Human Universal Load Carrier (HULC), among many others.



*Rick Edwards, executive vice president of Lockheed Martin Missiles and Fire Control, shows Dr. Hitt, president of the University of Central Florida, some of the notable pieces in the museum.*

The museum is located at the entrance to the Main Plant Lobby in Orlando. Those attending the REALM Annual Meeting in October have an opportunity to visit the museum.



*The Lockheed Martin MFC Museum Committee poses with Rick Edwards, MFC executive vice president, at the official ribbon cutting for the museum. Pictured from left: Steve Rocca, Bill Gochenour, Anna McWilliams, Doris Heard, Tess Moore, Andrew Breeden, Evan Eklund, Tom Burke, Steve Otte, Kate Vilches, John Owen, and Rick Edwards.*

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## **Martin Marietta Retiree's Club (Vandenberg News)**

By Charlie Radaz  
([fcmjradaz@aol.com](mailto:fcmjradaz@aol.com))

It is with great sadness that we report the passing of our Club founder, Bill Hughen, on July 3rd. Bill worked for the company at Vandenberg, Denver, and Washington, D.C. In his retirement, he worked in a local accounting firm and each January he updated us on the latest tax information.

Our 25 July meeting was held at the Embassy Suites in Lompoc with 25 attendees. Neil Baker, President, gave the program recalling past travels and experiences.

We met at the Radisson Hotel at the Santa Maria Airport on 29 August with two guests from the Santa Maria Museum of Flight describing the recent upgrades and acquisitions. Mike Geddry and Ron Johnson gave the presentation and then conducted a tour of the museum for several members after the meeting.

We met at Pea Soup Andersen's on 26 September with 22 attendees. Our guest speaker

was Felix Hernandez, Jr., Vice-President of Facilities and Operations for Hancock College in Santa Maria. He gave an excellent description of major construction projects that are underway at both Santa Maria and Lompoc campuses; most will be completed by the end of this year. The 50-50 drawing was won by Bob Rhodus.

The next meeting will be on 24 October at the Santa Maria Inn with Warden Ives from the Lompoc Federal Prison presenting.

Our Christmas luncheon is scheduled for 12 December at the Radisson Hotel Santa Maria.

Our club normally meets the last Thursday of each month at noon. We rotate between Santa Maria, Lompoc and Buellton. All former employees, their spouses, and associate contractors are welcome to attend, visit, and share informal stories.

Call Aubrey Collins (805) 937-8299 or Neil Baker (805) 733-1847 for location and reservations.

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## United Launch Alliance News

By Christa Bell  
([christa.m.bell@ulalaunch.com](mailto:christa.m.bell@ulalaunch.com))

### United Launch Alliance Atlas V Rocket Successfully Launches Mobile User Objective System-2 Mission for U.S. Navy

**Cape Canaveral Air Force Station, FL, (July 19, 2013)** – A United Launch Alliance Atlas V rocket carrying the second Mobile User Objective System (MUOS-2) satellite for the United States Navy lifted off from Space Launch Complex-41 at 9 a.m. EDT today. This was ULA's 6<sup>th</sup> launch of an aggressive 12 mission schedule for the year and the 72<sup>nd</sup> ULA mission since its formation in 2006.



"United Launch Alliance is honored to serve with our mission partners in the preparation and launch of this critical mission for the U.S. Navy and for our U.S. Air Force customer," said Jim Spornick, ULA vice president, Atlas and Delta Programs. "This joint government and industry team is keenly focused on mission success and enabling MUOS-2 to provide vital communications capability to the women and men protecting our freedom around the world."

The MUOS-2 mission was launched aboard an Atlas V Evolved Expendable Launch Vehicle (EELV) 551 configuration vehicle, which includes a 5.4-meter diameter RUAG Space payload fairing along with five Aerojet Rocketdyne solid rocket motors attached to the Atlas booster. The Atlas booster for this mission was powered by the RD AMROSS RD-180 engine and the Centaur upper stage was powered by a single Aerojet Rocketdyne RL10A engine.

"At nearly 15,000 pounds, MUOS-2 is the heaviest satellite launched to date by an Atlas launch vehicle, and today's Atlas vehicle provided 2.5 million pounds of thrust during the boost phase," said Spornick.

MUOS is a next-generation narrowband tactical satellite communications system designed to significantly improve beyond-line-of-sight communications for U.S. forces on the move. MUOS will provide military users 10 times more communications capacity over the existing system by leveraging 3G mobile communications technology, and will provide simultaneous voice and data capability.

Developed by the United States Air Force to assure access to space for Department of Defense and other government payloads, the EELV Program supports the full range of government mission requirements, while delivering on schedule and providing significant cost savings over the heritage launch systems.

ULA's next launch is the Delta IV WGS-6 mission for the U.S. Air Force scheduled Aug 7 from Space Launch Complex-37 at Cape Canaveral Air Force Station, FL.

### United Launch Alliance Congratulates Lockheed Martin Commercial Launch

## **Services for Securing Mexican Satellite Launch**

### ***Atlas V Rocket to Launch Mexico's Morelos-3 Communications Satellite***

**Centennial, CO, (Sept. 12, 2013)** – United Launch Alliance (ULA) congratulates Lockheed Martin Commercial Launch Services (LMCLS) on its selection to provide commercial launch services for Mexico's Morelos-3 (MEXSAT-2) communications satellite. ULA will provide the Atlas V rocket for this mission as a subcontractor to LMCLS. LMCLS is the exclusive provider of all non-U.S. government Atlas V launch services worldwide and provides all systems engineering, regulatory and related value-added services for the launch.

"We are tremendously pleased ULA's reliable Atlas V vehicle will launch this important communications satellite for the Secretaria de Comunicaciones y Transportes, a government agency of Mexico," said Michael Gass, president and CEO of ULA. "Atlas continues to be a cost-effective, proven choice for commercial and government customers to deliver vital satellites to orbit."

The launch is scheduled for as early as 2015 from Space Launch Complex 41 at Cape Canaveral Air Force Station in Florida.

Morelos-3 will be the third of three communications satellites that comprise the MEXSAT communications satellite system.

Since ULA was formed in December 2006, 74 missions have been launched with 100 percent success, carrying more than \$60 billion in U.S. government and commercial space investments.

Lockheed Martin Commercial Launch Services, a business unit of Lockheed Martin Corporation, markets the Atlas V to commercial satellite customers worldwide and also offers Athena launch services for small satellites and multi-payload RideShare missions. LMCLS is responsible for contracts, marketing, sales and mission management for commercial and international government Atlas missions and all Athena missions.

### **United Launch Alliance Successfully Launches Second Wideband Global SATCOM Mission for U.S. Air Force in Less Than Three Months**

**Cape Canaveral Air Force Station, FL, (Aug. 7, 2013)** – A United Launch Alliance (ULA) Delta IV

rocket successfully launched the sixth Wideband Global SATCOM (WGS-6) satellite for the U.S. Air Force at 8:29 p.m. EDT today from Space Launch Complex-37. This is ULA's seventh launch in 2013, the 73<sup>rd</sup> launch since the company was formed in December 2006, and the second WGS mission launch this year.



"Congratulations to the entire team on today's successful launch of the WGS-6 satellite. As with the previous five WGS missions, we have enjoyed a very strong partnership with the Air Force and all of our mission partners throughout this launch campaign," said Jim Spornick, ULA vice president, Atlas and Delta Programs. "We were honored to launch the first two WGS satellites on our Atlas V vehicle and the next four satellites in the constellation on our Delta IV vehicle, delivering critical communications capability to orbit to support our nation's war fighters throughout the world."

This mission was launched aboard a Delta IV Medium-plus configuration vehicle using a single ULA common booster core powered by an Aerojet Rocketdyne RS-68 main engine, along with four ATK GEM 60 solid rocket motors. The five-meter diameter upper stage was powered by an Aerojet Rocketdyne RL10B-2 engine with the satellite encapsulated in a five-meter diameter composite payload fairing. The WGS-6 launch marked the fourth flight of the Delta IV medium+ (5.4) configuration and the 23<sup>rd</sup> flight of the Delta IV family of launch vehicles.

"WGS was the first of the constellation of satellites to launch on both the Delta IV and Atlas V vehicles," said Spornick. "This team's ability to integrate and launch satellites successfully and efficiently on two launch systems provides operational flexibility to our customers."



Wideband Global SATCOM provides anytime, anywhere communication for the war fighter through broadcast, multicast, and point to point connections. WGS is the only military satellite communications system that can support simultaneous X and Ka band communications.

ULA's next launch is the Delta IV Heavy NROL-65 mission for the National Reconnaissance Office scheduled on Aug. 28, from Space Launch Complex-6 at Vandenberg Air Force Base, CA.

The EELV program was established by the United States Air Force to provide assured access to space for Department of Defense and other government payloads. The commercially developed EELV Program supports the full range of government mission requirements, while delivering on schedule and providing significant cost savings over the heritage launch systems.

### **United Launch Alliance Congratulates Delta Clipper Experiment (DC-X) Team's on its Induction into the International Space Hall of Fame**

#### ***ULA Employees Part of Original, Ground-Breaking DC-X Team***

**Centennial, CO, (Aug. 19, 2013)** – United Launch Alliance (ULA) congratulates the entire Delta Clipper Experimental (DC-X) team, which includes 11 current ULA employees, on their induction into the International Space Hall of Fame by the New Mexico Museum of Space History.

The DC-X was developed and built by McDonnell Douglas for the Ballistic Missile Defense Organization as an unmanned prototype for a reusable single stage to orbit launch vehicle.

"Congratulations to the entire DC-X team," said Michael Gass, president and CEO of ULA. "Delta Clipper was truly an innovated achievement 20 years ago. It was a not just about lifting off the ground and demonstrating flight, but DC-X ascended vertically, moved laterally, rotated to demonstrate flight up to an angle of attack of 70 degrees and then descended vertically to the same position it launched from, an achievement not yet replicated even today nearly two decades later."

DC-X reached astounding record altitude of just under 10,000 feet on its next to last test flight in 1996.

"I am grateful I had the opportunity to be part of the team that worked on this tremendously successful program and I am grateful to the New Mexico Museum of Space History for its recognition of the anniversary of this ground-breaking achievement," said Art Breinlinger, ULA Delta II production leader. "The data we learned from that program provided the basis for initial concepts of operations for Operationally Responsive launch systems investigated in the 2000-2010 timeframe."

The innovative approach and key technical demonstrations achieved by the DC-X and DC-XA vehicle were enabled by the use of the nation's most reliable engine, the RL-10, which continues to support critical National Security, NASA Interplanetary and Earth Observation and Commercial systems on the Atlas V and Delta IV launch vehicles.

ULA program management, engineering, test, and mission support functions are headquartered in Denver, CO. Manufacturing, assembly, and integration operations are located at Decatur, AL and Harlingen, TX. Launch operations are located at Cape Canaveral AFS, FL, and Vandenberg AFB, CA.

For more information on ULA, visit the ULA website at [www.ulalaunch.com](http://www.ulalaunch.com), or call the ULA Launch Hotline at 1-877-ULA-4321 (852-4321). Join the conversation at [www.facebook.com/ulalaunch](http://www.facebook.com/ulalaunch) and [twitter.com/ulalaunch](http://twitter.com/ulalaunch).

Contact: Jessica Rye, (321) 730-5646 (Office), (321) 693-6250 (Cell)  
[jessica.f.rye@ulalaunch.com](mailto:jessica.f.rye@ulalaunch.com)

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#### **Following photos were taken at:**

2013 MARS Picnic, September 4, 2013

## MARS ASSOCIATES EVENT SCHEDULE

EVENT/MONTH	2013									2014		
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Board of Directors		6		8		4		7		2		3
Officers	2	6	4	8	5	4	2	7	4	2	6	3
Bridge	18	15	20	17	21	21	18	16	20	18	15	19
Dinner	15	13	NONE	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Golf	Thu						Thu	Thu	Thu	Thu	Thu	Thu
Photo	10		12		13		10		12		14	
Hiking Club	16	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
EzyBytes	11&25	8&22	6&20	10&24	14&28	14&28	11&25	9&23	13&27	11&25	8&22	12&26
Web Committee	1	5	3	7	4	4	1	6	3	1	5	2
CO Rockies Game								TBD				
Sr. Luncheon										TBD		
Annual Picnic												TBD
Holiday Celebration			11									
Annual Meeting						5						
Items due for MARS STAR				6	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
STAR Repro. Deadline	14			14	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
STAR Mailing	23			23	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

DATED: October 2013

1. BOD meets the first Wed of every other month at The Egg & I near Southglenn at 09:30 AM.
2. Officers meet the first Wed of every month at The Egg & I near Southglenn at 09:30 AM.
3. Bridge meets the third Fri of every month at 10:00 AM at the Buck Recreation Center.
4. Dinner Club: 10/15/2013 - Pappadeaux's; 11/13/2013 - Mt. Vernon Country Club; Dec- No Activity.
5. Golf meets every Thu from Apr through Oct of each year.
6. Photo meets the second Thu of every other month at 1:30 PM at the Bemis Public Library in Littleton.
7. Hiking Club: 10/16/2013 - Castlewood Canyon State Park.
8. EzyBytes computer volunteers meet at 1:00 PM the 2nd and 4th Fri of the month  
- all meetings at Buck Recreation Center.
9. Web Committee meets at noon at Sweet Tomatoes on West Bowles, Littleton, on the Tuesday prior to BOD and/or Officers Meeting.
10. Sr. Lunch - TBD
11. Annual Picnic at Clement Park – TBD.
12. 2013 Holiday Celebration is Dec 11 at Inverness.
13. 2014 Annual Meeting is March 5, 2014 at Pinehurst.
14. MARS day at the Rockies – TBD.

This schedule is maintained by Duane Del Duca MARS President Elect.