

TRA's
No Name

GAZETTE

For Space Technology & Mission Systems Retirees

VOL XVIII, NO.5

July, 2006

Frank Warren New Associate Editor

HAPPENINGS AT NORTHROP GRUMMAN

Reported by Frank Warren
Northrop Grumman Corp. (NG)

- LOS ANGELES — NG Chairman and Chief Executive, Ron Sugar, suggests using Northrop's RQ-4 Global Hawk UAV pilotless surveillance aircraft to help stop the flow of illegal immigrants, drug smugglers, and terrorists across our borders. These, he says, could be supported by much smaller UAVs, also produced by NG, to fly at tree-top level.

Integrated Systems Sector (NGIS)

- EL SEGUNDO, CA — A NGIS-Boeing Company team has been selected by NASA to compete for an award to design and build the space agency's planned Crew Exploration Vehicle, a human space-transportation system that will serve as the Space Shuttle's replacement. The competition is expected to result in an award in September, 2006, to a single contractor team to design and produce the Crew Exploration Vehicle.
- FLORIDA — NGIS unveiled its Weightless Flights of Discovery program, a first-of-its-kind initiative designed to help educators inspire student interest in technical and scientific careers. The program includes the opportunity to participate in a "zero-gravity" aircraft flight that creates temporary weightlessness. NG is sponsoring the program in cooperation with Zero Gravity Corporation.
- VIRGINIA — NGIS is partnered with EADS(Extended Air Defense Systems)North America, the world's second largest aerospace and defense company, to provide NATO Air Ground Surveillance support and provide radars for the Global Hawk high altitude, long-endurance, unmanned aerial vehicle.

Frank Warren is the latest addition to the team that produces the No Name Gazette. His first column of *Happenings at Northrop Grumman* appears in this issue.

Frank attended UC Santa Barbara and the Art Center, then worked for Hughes Aircraft for five years as a graphic artist. Only three years after Ramo and Wooldridge founded R-W he came aboard, and became a charter member of the STL graphic design group. He served for 22 years as supervisor, then became Manager of Special Marketing Projects and, finally, Manager of Electronic Systems graphic design group. Along with illustration and graphic design, he did some writing including a Space Station ad series (really the highlight of his career).

Frank retired in 1990.

TRA is very pleased to have him join us on the NNG staff.

Electronic Systems Sector (NGES)

- WOODLAND HILLS, CA — NGES has been selected by the U.S. Air force to make available five key products in the Communication, Navigation, Surveillance/Air Traffic Management Products Catalog I. The selection is part of a three-year multiple award indefinite delivery/indefinite quantity contract. The products are NGES navigation systems and the company's Military Mode S Identification Friend or Foe (IFF) Transponder system.

Mission Systems Sector (NGMS)

- RESTON, VA — NGMS played a key role in the successful test of the Aegis ballistic missile defense system by supporting technical preparation and launch of the medium range target missile that provided an interceptor opportunity for this sea-based ballistic missile defense system. During this test, a 30,000 pound Castor IVB was destroyed by a missile fired off the USS Lake Erie, an Aegis BM defense system cruiser. This marks the 39th consecutive successful launch supported by NGMS.

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TRA for Northrop Grumman Retirees

TRA (The Retirees Association) welcomes the retirees of both the Space Technology and the Mission Systems Sectors of Northrop Grumman, as well as the Heritage TRW retirees. The No Name Gazette is our official publication. Our offices are in Building E2 at Space Park

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Contacting TRA

By Mail:

TRA, P.O. Box 1276, Redondo Beach, CA 90278

By Phone:

310-813-7745 (Our office is staffed only a few days a week. Please leave a message and we will get back to you.)

By E-mail:

TRA@tra-spacepark.org Your e-mails will be routed to the appropriate source. And, if we have your e-mail address on file, we send out special alerts at infrequent intervals. To get on the TRA e-mail list, just send us a brief e-mail requesting to be added to it.

By Web Page:

Our web page is at www.tra-spacepark.org. It is an excellent source for the latest news, lists of the new retirees, travel details, party photos (more than get into the NNG), forms of all sorts, personal photographs, and much more. Come in and browse.

Membership:

TRA Membership is open to all NGST & NGMS retirees at \$7 per calendar year. First year free. Application on web page or call Betty Stover: 310- 370-0109

TRW Retiree Meetings Around the U.S.

GROUP	MEETING LOCATION	TIME & DATE	OTHER INFO	CONTACT
TRA	Bldg. S Park Patio Cafe, Space Park	See notice elsewhere in NNG	Business Meeting 1:00 p.m. followed by Forum at 2:15 p.m.	No reservations needed. All Members Welcome
ATD	Alpine Village, Torrance, CA	Nov. 7, 11:00 a.m.	Social and Nostalgia	Don Brown, Sandy Friedfeld, Bob Traylor 310-541-1917 or sandjol@aol.com
Brevard Retards	Various Locations in Brevard, NC	1st Tues. 8 a.m. 3rd Tues. 5 p.m.	Social	Al & Daughn Connarn 828-554-4993 aconnard@yahoo.com
Central Coast Chapter	Various Locations in the Central Coast Area	2nd Monday Various times	Social	George Zaiser 805-929-6672 geohnip@aol.com
D.C.	Frederick MD		Sporting Events	Lew Schneider 301-984-0977 scribblew@verizon.net
Huntsville Chapter	Barnhill's Buffet University Drive, Huntsville	2nd Tuesday 11:30 a.m.	Social	Jim Troy 256-534-7136 troys@comcast.net
Las Vegas	Various Locations in Las Vegas Metro Area	Last Tuesday 11:30 a.m.	Social	Carol Noblet 702-889-6773 fiftysumthn@aol.com
Northern Virginia	Squire Rockwell Restaurant Fairfax, VA	3rd Friday 11:30 a.m.	Social	Bill Gehrke 703-759-0527 wgehrke@att.net
Ogden	Cracker Barrel Restaurant Layton, UT	1st Thursday Breakfast	Social	Fred Zeuthen 801-476-0656 fzeuthen@earthlink.net
San Bernardino	Norton AFB Golf Club	October	Social plus programs of interest	Joe Daruty 909-792-8022 jdaruty@aol.com
SE Chapter	Savannah, GA	May 5-7, 2006	Social	Robert Baris 803-648-3142 sirabb2@peoplepc.com
San Diego Chapter	Event Dependent	3rd Tuesday	Social or Board Meeting	Jim Denton 858-385-0150 jandc_denton@msn.com
Temecula Valley	Various Locations in Area	Quarterly for Lunch	Social	Judy Lebovitz 909-461-0065 jlebo6720@aol.com
TRW Retirees of the Desert	Elmer's Steak House Indio, CA	Every Tuesday 1:00 p.m.	Social and Nostalgia trwdesertretirees.blogspot.com	Joe Clopton 760-342-8171 joeclopton@dc.rr.com
The Ventura County Romeos	Du-Pars Thousand Oaks, CA	1st Tuesday 12:00 noon	Social	Fred Blaich 805-499-0012 harrison_stroud@hotmail.com

TRAvel News

HARRAH'S RINCON CASINO—San Diego

August 23, 2006

R/T motor coach. Includes \$10.00 card coupon (can be used for gambling or food), driver tip, snack and water on coach. Price is \$8.00 p/p. Sue Anderson, 310-371-5316

LAKE TAHOE/RENO/BALLOON FESTIVAL

Sept. 7-11, 2006

R/T deluxe motorcoach. 4 nights at Legacy Hotel (Reno), Lake Tahoe cruise, visit to Virginia City and full day Balloon Festival (Reno), \$373 dbl; \$563 sgl. Deadline – 1 August, 2006 Betty and Jim Addis; 310-379-6988

PANAMA CANAL CRUISE

September 28, 2006

18 days from Los Angeles on NCL SUN to New Orleans via Puerto Vallarta, Ixtapa, Acapulco, Puente Arenas, transit Canal, Aruba, Curacao, and New Orleans. From \$1756 ppdo (including taxes) to \$2410 (outside w/balcony). \$150 pp deposit to ensure space (refundable 'til 30 June). Jay Seidman, 818-343-5171

LAS VEGAS (at the Mirage)

November 26-28, 2006

R/T coach, 2 nights at the hotel, 2 buffet breakfasts, driver's tip, tax and baggage handling. \$214 p/p dbl., \$294 sgl. \$50.00 deposit now. Tom Tucknott, 310-530-4992

SMOKING IS NOT PERMITTED ON ANY OF OUR BUSES

Because it is unlawful to furnish alcoholic beverages to bus passengers, we serve only soft drinks.

The Travel Committee meets on the 2nd Thursday of every month at 1:00 p.m. in Bldg. E2/1200. The meeting is open to everyone.

Our plans for 2007 include the following. Contact the identified coordinator for more information. For comments and/or suggestions, please contact **Jay Seidman** at **818-343-5171** or **jayandgermy@sbcglobal.net**.

January, 2007

Chinese New Year (Hong Kong)—Hy Chase, 310-274-1548

March, 2007

Bali and Beyond—Hy Chase, 310-274-1548

May, 2007

Mesquite, Zion and Bryce—Betty Kay Addis, 310-379-6988

June, 2007

Yosemite—Tom Tucknott, 310-530-4992

Laughlin—Betty Kay Addis, 310-379-6988

Summer, 2007

Alaska Cruise/Tour—Jay Seidman, 818-343-5171

August, 2007

Rosarita Beach (shopping and lobster dinner)—Jim Addis, 310-379-6988

October, 2007

Redwoods with Skunk Train—Tom Tucknott, 310-30-4992

November, 2007

Las Vegas—Tom Tucknott, 310-530-4992

Danube & Wine Cruise—Jay Seidman, 310-343-5171

Important Contacts for Retirees

Northrop Grumman Benefits Center

www.benefits.northropgrumman.com

Select "Retiree Connection"

Or by phone: 800-894-4194 — Options:

- 1) Health & Welfare Benefits
- 2) Pensions
- 3) Savings
- 4) Benefits Service Representative

Express Scripts (Rx)

www.express-scripts.com

1-800-655-1971

Savings Account Line

800-676-7211

Northrop Grumman Benefits Services(Space Park)

800-537-7694

One Space Park, S/2451
Redondo Beach, CA 90278

TRW Retiree not very Retired

Dr. Robert Brodsky has just written a book to add to his list of accomplishments. Officially retired from the University of Southern California in 1996, where he was a professor of aerospace engineering, Brodsky has stayed very busy. Twice he has been the speaker at the TRA Forums. Previous to his stint at USC, he worked at TRW, Convair, Aerojet, and Sandia, and was department head of Aerospace Engineering at Iowa State University.

His book, *On the Cutting Edge*, has a subtitle of *Tales of a Cold War Engineer at the Dawn of the Nuclear, Guided Missile, Computer and Space Ages*, essentially covers the many interesting aspects of his very active career. Through a series of interrelated narratives, readers learn about many of the interesting projects that led to the great technological breakthroughs that we take for granted today.

His book is available from the University of Nebraska Press www.nebraskapress.unl.edu or by calling 800-755-1105. Mention the code AF61 and you will receive a 20% discount for a price of \$14.40 plus shipping charges.

Now, maybe, Dr. Brodsky will retire!



TRA's Summer Annual Meeting

Almost 400 retirees and guests attended TRA's Summer Annual Meeting on June 10. Space Technology President Alexis Livanos (left) presented a review of their 2005 performance, and announced great renovation plans for Space Park: \$100 Million over seven years. Here are photos by Tony Gomez (TG) and Darrell Auserman (DA) of attendees.



HAPPENINGS AT NORTHROP GRUMMAN

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Space Technology Sector (NGST)

- REDONDO BEACH, CA — NGST been selected to develop "military grade," solid-state laser high-energy laser technology that is expected to pave the way to incorporation by all services including ships, manned and unmanned aircraft, and ground vehicles. The program goal is to reach 100kW power. The 36 month contract was awarded for \$68 million.
- REDONDO BEACH, CA — Recent tests demonstrated that the first Fault Tolerant 1394 integrated circuits (ICs), operating at speeds 100 times greater than existing ICs and adapted for use in space are performing as planned. NGST led the effort to verify, qualify and manufacture the circuits for use on next generation polar orbiting environmental satellites. The IEEE 1394a, an industry standard widely used in commercial electronics, was tailored to manage the large amounts of data that will be generated by sensors on the National Polar-orbiting Operational Environmental Satellite System (NPOESS) and the NPOESS Preparatory Project (NPP). Some sensors will generate more than 30 megabits of data per second.
- REDONDO BEACH, CA — A team led by Lockheed Martin and NGST became the first to successfully demonstrate the interoperability of a new high-data-rate protected waveform in the initial test of the Next Generation Processor/Router, the brain of future internet protocol-based military satellite communications for the Transformational Satellite Communications System (TSAT). This follows earlier successes producing sophisticated processors for MILSATCOM systems including Milstar and advanced Extremely High Frequency (EHF) satellite system.
- REDONDO BEACH, CA — A joint NGST/NASA team received an Exceptional Achievement Award from NASA's Goddard Space Flight Center (GSFC) for developing a cost-effective system to test the James Webb Space Telescope (JWST). With NGST as prime, the team created an entirely new system for testing JWST's primary mirror optics in what may be the most complex cryogenic vacuum test ever, replacing a traditional approach and saving a reported \$100 million.

The No Name Gazette is published six or seven times a year, and is the official publication of TRA, with offices in Bldg. E2, Room B114.

NO NAME GAZETTE STAFF

Al Hausrath, Editor

Bob Crowe, Frank Warren, Contributing Editor

Athena Christe, Karin Petersen and Lee Rathbone, Copy Editors

IN MEMORIAM

Retiree Name	Date of Death
Donavon N. Aakhus	March 24, 2006
Robert Joseph Duffy	June 24, 2006
Jack Friedenthal	June 3, 2006
Harry T. Hayes	June 10, 2006
Warren G. Jones	April 26, 2006
Donald William Spellman	April 28, 2006
Albert M "Al" Steed	July 6, 2006

The first step in notifying Northrop Grumman of a retiree's death is to call the Benefits Service Center at 800-894-4194, Option 1. For many retirees, there is a Burial Benefit which will be paid to the beneficiary upon proper notification of death.

The above names were submitted by TRA members. If you know of a deceased retiree that should be included in the "In Memoriam" column in future NNGs, please submit the following by mail or e-mail to the TRA office.

- Name of the deceased
- Date of death
- Name of person submitting the information

MORE MAIL POUCH

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Variano live in Rancho Palos Verdes, CA—part of the time! They get to Palm Desert at least six times a year, Chicago two or three times to see daughter and grandchildren and Idaho to see Lynn's dad. And, they've even considered moving elsewhere—until they "count our blessings in California!" Enclosed with their note was a four year TRA membership renewal check! ♦♦♦♦ How about a "hello" from Bitterroot Valley in Hamilton, Montana. **Gayle (Wright) Sommer** lives there and extends an invitation to any of her old friends who might be coming through the valley on the way to Glacier National Park, fly fishing or hunting to give her a ring. She is in the local directory and would very much enjoy seeing old friends ♦♦♦♦ **Ray Jaffee** reports from Rosamond in the high desert near Edwards AFB, an alternate shuttle landing site, that the last double boom broke a window in his house. "Ah well," he muses "space science, lots of NGers, but nary a true TRWrite like himself!" ♦♦♦♦ **Stan** and **Donna Reib** have signed up for "four more." They recently returned from a "fantastic" African game safari and are planning on visiting Ireland in early fall. They are currently located in Coupeville on Whidbey Island just north of Seattle but being sensible people they still maintain a place in the sun (Torrance) for those cold winter months. You can reach them at strand-dkr@cs.com ♦♦♦♦ **Wayne Ammons** has decided to leave Southern California for the lush fertility of Henderson, NV, just a lever pull down the road from Las Vegas and not too far from Lake Mead. The move was effective on 7 July and if he skipped town without telling you he can be reached at wammo@cox.net ♦♦♦♦

The next NNG will be published in
September

THE MAIL POUCH — Sorted and Delivered by Bob Crowe

Wouldn't you **LOVE** to send a message to **Bobbie** or **John**? And, they would probably **LOVE** to hear from you. Turns out that a gremlin infiltrated the last NNG and failed to enter the complete email address for the **Loves** on the lovely island of Kauai. If you are heading that way let them know at bobbie.love@hawaiiintel.net. They offer island tours, with no price mentioned♦♦♦What a gift!!!!!! Last Christmas **Bob Moore**, who retired in 1992 after 13 years as the TDRSS ACS SPM, received the gift of all gifts from his son Kevin. Turns out Kevin, Experiment Operations Mgr. at a Boeing Optical Tracking station on Maui, received special recognition for his work in discovering new asteroids for a JPL cataloging program. Part of the award was allowing him to name a new asteroid. Guess what he named it? As of December 14, 2005, Minor Planet 84200 will also be known by the alternate name **Robertmoore**♦♦♦Retirees **Bruce** and **Sandy Evans** are still enjoying living in Prescott, AZ. Turns out while doing some traveling last year they were in Cancun during Hurricane Wilma. Didn't faze them a bit, they are looking forward to a return visit to Cancun this year. They keep busy but slyly admit to having time for "your real estate referrals"♦♦♦**Rosemary Christensen** forwards an interesting clipping from the Albuquerque Tribune which gives an unusual insight into Northrop's wide range of activities. Turns out the amphibious assault ship USS New York is being built by NG in



Avondale, La. It hasn't been launched yet but has already made history—twice. First, some 24 tons of scrap metal from the World Trade Center has gone into its hull and, secondly, it survived Hurricane Katrina. Northrop Grumman employs some 6500 at the shipyard♦♦♦jamesduke@hotmail.com sends a question along with his dues renewal from Nashville, TN where he and **Flodine** live. "Are there any TITAN II first launch reunions planned?" He was present at the silo launch at VAFB. "It blew up at about 20,000 ft. It's claimed that

Walter Cronkite said 'Something must have gone wrong!'"♦♦♦**Bill Faulds** spent most of his TRW career working out of California i.e. Toronto, Dayton, Cleveland and Albuquerque. Upon retirement he settled in Canyon Lake, CA where he and his spouse have spent the past 18 years. Now, "at a very healthy but advanced age" they are moving north to the San Luis Obispo area, Nipomo to be exact, to be closer to three families, 4 grandchildren and 7 great grandchildren. Their new house should be ready in late fall and in the meantime they can be reached at forevryung@juno.com♦♦♦**June Huey** has renewed for two more years from her home in Zanesville, OH to keep in touch with retiree happenings. However, she needs a bit more of a personal touch and would very much like to get some newsy emails from her friends and former co-workers. She can be reached at junebug3792@sbcglobal.net♦♦♦ **Don and Lynne**

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