

**TRA's**  
**No Name**

# **GAZETTE**

**For Northrop Grumman & TRW Legacy Retirees**

VOL. XXXIV NO. 5

Our 34th Year

September/October 2022

## **Make Your Reservations Now for the TRA Holiday Party**

Summer is in the rear-view mirror, the days are getting shorter, and it is already time to make your reservations for the TRA Holiday Party. This year we will be at:

**The Proud Bird Restaurant**  
**Tuskegee Ballroom**  
**11022 Aviation Blvd**  
**Los Angeles 90045**

**Friday, December 9, 2022, 11:00AM to 2:00PM**

The elegant and beautifully remodeled Proud Bird has refurbished and updated their "Airplane Park," which features full-scale vintage aircraft models with views of the Los Angeles Airport landing approach. We will be in the Tuskegee Ballroom, which is located right next to the main restaurant entrance. Doors will open at 11:00AM, so no need to show up early.

We have planned a sit-down, plated lunch. Your entrée choices are: **Pan-Seared Salmon** with garlic caper cream sauce, mashed potatoes, and seasonal vegetables; or **Spaghetti Pomodoro** with fresh basil for those who prefer a vegetarian entrée; or **Grilled Marinated Chicken Breast** with pan jus, oven roasted potatoes, and seasonal vegetables. Entrées will be served with a salad of house mixed greens with avocados, tomatoes, and a smoked tomato vinaigrette. For dessert, we will have their famous New York Cheesecake.

Your choice of freshly brewed coffee, a selection of herbal teas, iced tea and water is included with the meal. In addition, a no-host bar with beer, wine, cocktails, and soft drinks will be available. If

you have a dietary restriction, email us at [tra@tra-spacepark.org](mailto:tra@tra-spacepark.org), and we will make arrangements with the restaurant.

Free parking is available in The Proud Bird parking lot. Overflow pay parking is available in a city lot adjacent to the restaurant.

The price for the Holiday Party is \$55.00 per person, which includes tax and all service charges. We acknowledge that, as an effect of the pandemic, prices have increased; but we investigated several venues for groups of our size and The Proud Bird provided us the best value. Please invite your friends and co-workers to join us for this once a year celebration as well as a chance to catch up with your fellow retirees.

To reserve your spot at the luncheon, save a stamp by going to [www.tra-spacepark.org](http://www.tra-spacepark.org) (if you're not already registered for access to the web site it takes just a few minutes to register) and reserve on-line and pay with PayPal. If you don't have a PayPal account, on the PayPal form select "Pay as a Guest" to use your credit card. Or, you can mail in your reservation with your payment using the form below.

When you make reservations, indicate your selection for entrée including the number. For example, if both you and your guest desire the Salmon, put a "2" next to the Salmon item on the form.

Please be sure to postmark by **November 14th**. Online registration will close on November 23rd. Reservations are required and we won't be able to take walk-ins the day of the event. And sorry, due to our special pricing, we won't be able to refund cancellations after November 23rd. This event is limited to 240 people. We hope to see you there!

### **HOLIDAY PARTY RESERVATION FORM**

**Mail-In Reservation Deadline: Postmark by November 14, 2022**

Member Name: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Membership No. (from mailing label): \_\_\_\_\_ Phone: \_\_\_\_\_

Guest Name(s): \_\_\_\_\_

Entrée Selection (indicate quantity): Salmon \_\_\_\_\_; Spaghetti \_\_\_\_\_; Chicken \_\_\_\_\_

Total Attending: \_\_\_\_\_ at \$55 each = \$ \_\_\_\_\_

Go on-line to [www.tra-spacepark.org](http://www.tra-spacepark.org) and make your reservations and pay using Paypal.

Or, mail with a check payable to "TRA" to the following address: TRA, P.O. Box 1276, Redondo Beach, CA 90278

## TRA for Northrop Grumman Retirees

The Retirees Association (TRA) welcomes the retirees and the spouses of retirees of Northrop Grumman and TRW.

### 2022 Officers

Dena Bouskos	President
Mary Ann Chory	Vice President
Pam Overton	Secretary
Joyce Komatsu	Treasurer

### 2022 Directors-at-Large

Charles Clendening, Bob Doll, Marcy Morrison,  
Michael Narigon, Jim Nelson, Carol Schamp,  
Steve Smith, Stephanie Sundius, Jack Trost

*Archives Coordinator:* Robert Doll

*Email Coordinator:* Jim Nelson

*Membership/Facebook Coordinator:* Stephanie Sundius

*Website Coordinator:* Steve Smith

The No Name Gazette is the official publication of TRA. It is published six times a year.

### Publication Staff

Editor: Michael Narigon

Contributor: Pam Overton

Copy Editors: Kim Lewis, Carol Schamp

## Contacting TRA

### By Email:

TRA@tra-spacepark.org - Your email questions will be routed to the appropriate source. Also, if we have your e-mail address, we can notify you of information of interest to our TRA members. Send us an email to get added to the TRA email list.

### By Web:

Our website is at [www.tra-spacepark.org](http://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.

### By Mail:

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

### By Phone:

The pandemic has limited our office hours and email is the best way to reach us. If you need to phone, call 310-813-7745 to reach our voice mail.

### For Membership:

TRA Membership is open to Northrop Grumman and TRW-legacy retirees at \$10 per calendar year. The application is available on the website.

## TRW/NG Retirees Meetings Around the U.S.

E-mail or call the contact to make sure the event is occurring before you go. Changes from last issue are marked in **bold**.

If you have a group that you would like to have listed here, please contact us by email at [tra@tra-spacepark.org](mailto:tra@tra-spacepark.org).

GROUP	MEETING LOCATION	DATE & TIME	OTHER INFO	CONTACT
TRA Board Meeting	Zoom	3rd Wednesday, 9:30 AM, Monthly except December	Decisions, planning and actions on archives, events, NNG, coordination with NG	All members welcome. Contact TRA to receive meeting link
ATD Friends & Colleagues	<b>Lido di Manhattan, 1550 Rosecrans Ave, MB, CA</b>	1 November 2022, 11:00 AM	Social, Nostalgia, Lunch	Jack Trost, Dena Bouskos, Cindy McCully 310-377-2194 cschamp@aol.com
Beach Cities Get-together	Grunions Restaurant, 1501 N Sepulveda Blvd, MB, CA	Last Monday, Even months, 11 AM to 2 PM	Social	Allen Parker 310-780-0712 777allendsp@gmail.com
Brevard Retirees	Various Locations in Brevard, NC	1st Wednesday, 8 AM 3rd Wednesday, 5:30 PM	Social	Tom and Vicki Moore 828-808-0457 seneca75@verizon.net, thistle33@verizon.net
Central Coast Chapter	Various Locations in the Central Coast Area	Various days: contact Zaiser for details	Social	George Zaiser 805-473-2105 gzais34@icloud.com
Houston Chapter	Baybrook Denny's, 19212 Gulf Fwy, Friendswood, TX	3rd Tuesday, 8:30 AM	Social	Gary Dinsmore 281-461-6270 samngary@att.net
Huntsville Chapter	Red Lobster	2nd Tuesday, 11:30 AM	Lunch and Social	Jim Troy 850-797-0044 jtroy28x@gmail.com
<b>Northern Virginia</b>	<b>Zoom Lunch at the Old Brogue</b>	<b>2nd Friday, 11:30AM 3rd Friday, 11:30 AM</b>	<b>Social</b>	<b>Jim Miller 703-483-5448 jmiller158@gmail.com Contact Jim for more information and for the Zoom link</b>
Utah	Layton Cracker Barrel	1st Thursday, 8:30 AM	Breakfast Social	Charles Vono 801-745-5879 charlesvono@comcast.net
San Diego Chapter	Event Dependent	3rd Tuesday, Alternate Months	Social or Board Meeting	<a href="http://sandiego.tra-spacepark.org">http://sandiego.tra-spacepark.org</a> Jim Denton 858-385-0150 JWDenton@san.rr.com
Temecula Valley	Various Locations	2nd Wednesday, 11:30 AM	Social	Sue Marbut 951-723-1157 dnsmar@verizon.net
The Mountain Folks	On hold due to Covid-19		"We do have fun!"	Carl Winkelman 303-693-0034 winkelman@att.net
TRIN	Zoom	2nd Thursday, 1:00 PM, Optional lunch at 12:30	Investment info based on monthly newsletter reviews	Bob Eshbaugh 310-376-5880 eshonnet@yahoo.com
Ventura Romeos	Mimi's Cafe Thousand Oaks	1st Tuesday, Lunch	Social	Frank Yunger 805-444-1541, Harry Stroud 805-653-5117

## Please vote for your 2023 TRA Board

Each summer, the TRA Board nominates its officers and directors-at-large for the coming year. These names are then submitted to the members to ratify or to nominate other candidates. Officers serve for a one-year term, while the directors-at-large are elected for a term of two years. The longer term for the latter group helps bring continuity to the management and operation of TRA.

Please take the time to vote. Your votes show that you support the nominating committee and those other hardworking individuals that help keep TRA going. Go to [www.tra-spacepark.org](http://www.tra-spacepark.org) (if you're not already registered for an on-line account, take a few minutes to register) and click on the "2023 TRA Ballot" button on the home page to vote. Or, you can vote by completing and mailing the enclosed ballot. Just follow the instructions on the ballot. Your ballot must be postmarked by October 15, 2022 to be counted.

We want to thank Charles Clendening, Robert Doll, Marcy Morrison, Michael Narigon, and Steve Smith, who will all continue as TRA directors-at-large in 2023. Carol Schamp will continue to support TRA as a special advisor.

Here are the 2023 board nominees:



**President: DENA BOUSKOS:** Dena retired in 2011 after 38 years of service in Human Resources. She worked in Staff, Functional and Program positions including support of our international off-site locations. Dena became a member of TRA in 2011 and has volunteered for TRA in different capacities: Membership, Vice-President, Office Administration and President. Although she enjoys traveling with friends, the pandemic kept her very close to home for the past couple of years but hopes to travel in 2023. During that time she "zoomed" a lot with friends and family, enjoyed reading and committed to cook a new recipe each week. Currently she's working with an architect to design a garage & office and plans to get it built in the very near future!



**Vice President: MARY ANN CHORY:** Mary Ann is currently TRA vice president and has served in previous years as president and secretary. Since retirement, Mary Ann has enjoyed traveling with her husband John visiting family, friends and national parks across the country. A highlight was walking the Camino Real in Spain from Leon to Santiago de Compostela with three work colleagues before Covid. Mentoring and tutoring middle school students on line is an ongoing activity.



**Secretary: JANIS MACRAE:** Janis just retired in April of this year after 21 years of service. She served in a variety of HR leadership positions. Janis began her career as an HR Director of a large functional organization (S&TD), then moved to Sector Staff to cover the staff organizations (e.g., Business Management, Mission Assurance, etc.) as well as covering the HR Compensation, HRIS & Strategic Planning function. Janis supported the Programs area and spent most of her time on the restricted programs and offsites. During the pandemic she spent time enjoying virtual tequila and wine tasting, traveling, music & the performing arts, family and friends and reading great espionage fiction like "The Swamp".

## Benefit Contacts for Retirees

The Northrop Grumman Benefit Center (NGBC) is where you can report a change of address, report a death, or apply for a pension. See the "myRetirement" menu item on the NGBC home page for retiree services. If you call and you do not have an account, they will ask you for your employee number and retirement date.

### Northrop Grumman Benefits Center (NGBC)

[www.benefits.northropgrumman.com](http://www.benefits.northropgrumman.com)

Phone: 800-894-4194

Fidelity administers pension payments and the Northrop Grumman savings plan.

### Fidelity NetBenefits

[www.netbenefits.com/northropgrumman](http://www.netbenefits.com/northropgrumman)

Via Benefits handles Medicare supplemental insurance and open enrollment.

### Via Benefits (a Tower Watson Company)

[www.viabenefits.com](http://www.viabenefits.com)

Phone: 855-832-0976 (M-F 8AM-9PM Eastern)

A small number of TRW retirees receive their medical benefits through the Northrop Grumman Benefits *Service* Center. This center is staffed by Benefits Outsourcing Solutions, Inc. Their number is 800-410-6605.

Metlife administers your life insurance if, after you retired, you continued your coverage under the Northrop Grumman group plan.

### Metlife

[www.metlife.com](http://www.metlife.com)

Phone: 800-756-0124 for group insurance information.

Phone: 800-638-6420 to file a claim.

If you were employed by TRW and retired before January 1, 2006, you may be eligible for an insurance benefit, payable on your death.



**Treasurer: JOYCE KOMATSU:** Joyce retired from Aerospace Systems in 2016 after almost 38 years of service. During her career in the business family, she worked a variety of assignments including project cost control and discretionary resources budgeting. She received a BA in Classical Languages and an MBA from Cal State University Long Beach. She volunteers in several organizations helping to feed vulnerable people and has lots of hobbies including cooking, sewing, and traveling. Joyce is the current TRA treasurer and was previously TRA membership coordinator and director-at-large.

### Director-at-Large



**JIM NELSON:** Jim retired from Northrop Grumman in 2020 - having joined TRW in 1989 and after working at JPL. Jim started in the Digital Products Center doing high speed integrated circuit design preceding various Functional and Program management roles supporting Space and Air technology & vehicle developments and production. Along the way, Jim also worked briefly at a fables semiconductor startup developing products for the emerging WiFi market. He received a BS in Electrical Engineering from Rice University, an MSEE from Stanford, and an MBA from UCLA.

*Vote - continued Page 4*

*Vote - from Page 3*



**PAM OVERTON:** Pam joined TRW in 1966 and retired in 2013 after 47 years with TRW/Northrop Grumman. She served in a number of clerical positions and in 1986 moved to Proposal Operations. In her position as a proposal production coordinator and technical editor she supported a wide variety of proposals. During her career, she served on the TRW Employee's Association Board for over 20 years and was an active member of the Travel Club. As a travel coordinator, she escorted groups on trips to Mexico, Europe, Hawaii, the mainland U.S., and the Orient. She is a quilter and is a member and active board member of the South Bay Quilters Guild, Santa Monica Quilt Guild, Westside Quilt Guild, and Southern California Council of Quilt Guilds. In her spare time, she and her business partner, Lynn Crawford, plan and lead tours for their business, the Traveling Quilters. Pam is the current TRA secretary. She is also responsible for the In Memoriam and Mail Pouch columns in the newsletter. Since early 2020, she has helped facilitate the Zoom board meetings and special events for TRA.



**STEPHANIE SUNDIUS:** Stephanie retired from Aerospace Systems in 2014 after 26 years with TRW/Northrop Grumman. Starting on the Milstar program in payload software system engineering, she soon moved into functional management and technical operations, supporting programs and organizations across the company. She received a BS in Math-Systems Science from UCLA and a Masters of Science in Systems Management from the University of Southern California. She supports NGC and TRA events, is one of the admins for the TRW/NG closed group Facebook page, and is a current TRA director-at-large.



**JACK TROST:** Jack retired from TRW in 1995 after serving 34 years with the company. In addition to his systems engineering contributions to the ballistic missile and spacecraft programs, Jack developed the Fluid Mechanics Laboratory (Building 67), where he directed experiments in many of the company's first high energy chemical lasers. He received a BS in General Engineering from UCLA and an MS in Aerospace Engineering from USC. He was president of the TRW/SEA square dance club, the Pioneer 8's. Jack is a docent at the Western Museum of Flight. He serves on the board of the Peninsula Symphony Association. Jack is a past president and vice-president of TRA.

### New TRA Members

Jim Blandford	Oakton, VA
Susan Dade	Dolores, CO
Mike Jamgochian	Redondo Beach, CA
Steve Kavanaugh	Long Beach, CA
Paul Mullin	Manhattan Beach, CA

We hope these new members will send a note to us at [mailpouch@tra-spacepark.org](mailto:mailpouch@tra-spacepark.org) telling us a little about themselves and where they worked at Northrop Grumman/TRW.

Note: We have changed a handful of our member's ID numbers to clean up our membership database. Previously, if a spouse continued a member's account we changed the member's name, but not the ID. This caused some confusion in generating the directory, so we now create a new member ID for a spouse.

## Second Online JWST Update with Scott Willoughby and Vince Heeg

TRA is pleased to announce that we have arranged for a second James Web Space Telescope (JWST) program update from Northrop Grumman vice president and program manager Scott Willoughby and Northrop Grumman vice president and deputy program manager Vince Heeg.

The event will be on **Thursday, October 20, 10:00AM to 11:00AM Pacific Daylight Time** as a Zoom virtual event. Registration for this event is required and is available at our website, [www.tra-space-park.org](http://www.tra-space-park.org). The Zoom meeting details will be provided by email upon your registration.

Note that, based on Scott's and Vince's schedule, we may have to postpone or change this event. If so, we will notify registered attendees by email.

If you can't attend the live event we plan to record the event and make it available to our members on our web site.

Since launch, deployment, and calibration, JWST has exceeded expectations. Early discoveries include new deep-field images, images of the planet Jupiter, identification of star-forming regions within the "Phantom Galaxy", and the detection of carbon dioxide in an alien planet's atmosphere.

Scott Willoughby is vice president of Program Excellence for the Space Systems Sector. He was vice president of Operations for Strategic Space Systems and program manager for the JWST program at Northrop Grumman. Prior to JWST, Scott was P858 program manager in Advanced Concepts, Technology and Emerging Systems Division, and program manager for the Advanced Extremely High Frequency (AEHF) program, where he led the team on early deliveries to Lockheed Martin for the Flight 1 and Flight 2 AEHF payloads.

Vince Heeg is vice president of Operations at Strategic Space Systems. He was deputy program manager on JWST. Prior to JWST, Vince was director of Systems Integration, Test and Evaluation for the Research, Technology, and Engineering group in the Aerospace Systems Sector.

Please plan to join us on-line for this special event.

## HAPPENINGS AT NORTHROP GRUMMAN

### Northrop Grumman's Boosters Ready to Launch a New Era of Deep Space Exploration for NASA's Artemis Program

Two Northrop Grumman Corporation five-segment solid rocket boosters will help launch the first flight of NASA's Space Launch System (SLS) rocket from Pad 39B at Kennedy Space Center, Florida, as part of the Artemis I mission. Manufactured at Northrop Grumman's northern Utah facility, the world's largest rocket boosters will provide over 75 percent of the rocket's thrust at launch for the first in a series of Artemis missions.

"Northrop Grumman's solid rocket boosters used for Artemis I are the largest and most powerful ever built for flight and help power America's new era of human space exploration," said Wendy Williams, vice president, propulsion systems, Northrop Grumman. "Leveraging decades of expertise and flight experience, the SLS boosters are vital to this mission because each provides 3.6

*Happenings - continued Page 5*

**2022 Officers**

Dena Bouskos  
*President*

Mary Ann Chory  
*Vice President*

Pam Overton  
*Secretary*

Joyce Komatsu  
*Treasurer*

**2022 Directors-at-Large**

Charles Clendening\*\*

Robert Doll\*\*

Marcy Morrison\*\*

Michael Narigon\*\*

Jim Nelson\*

Carol Schamp\*

Steve Smith\*

Stephanie Sundius\*

Jack Trost\*

*\*Completes term in 2022, \*\*Completes term in 2023*

**2023 TRA Officer and Director Ballot**

I vote for all the candidates; or, vote position by position below

**Officers** (One year term)

*President*

*Vice President*

P-1: Dena Bouskos

VP-1: Mary Ann Chory

P-2: \_\_\_\_\_

VP-2: \_\_\_\_\_

*Secretary*

*Treasurer*

S-1: Janis Macrae

T-1: Joyce Komatsu

S-2: \_\_\_\_\_

T-2: \_\_\_\_\_

**Directors-at-Large** (Two year term) (Vote for four)

D-1: Jim Nelson

D-5: \_\_\_\_\_

D-2: Pam Overton

D-6: \_\_\_\_\_

D-3: Stephanie Sundius

D-7: \_\_\_\_\_

D-4: Jack Trost

D-8: \_\_\_\_\_

Don't forget, if you prefer, you can go to the [tra-spacepark.org](http://tra-spacepark.org) website and click on the "2023 TRA Ballot" button on the home page to vote electronically. It saves a stamp.

**When completed, fold, tape edge as indicated, stamp, and mail.**

Ballot must be postmarked by October 15, 2022 to be valid.

*Thank you for participating!*

Place First  
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age Here

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

2023 Ballot

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Tape Edge

No staples

Tape Edge

## IN MEMORIAM

**Tom Gasparini**, 75, July 13, 2022. Tom attended the University of Pennsylvania and got his law degree from USC. He served in Vietnam in the Navy Lt., JAGC and joined TRW in 1977 as a lawyer. He worked for Energy Products, TRW Space and Technology, TRW Corporate, and Credit Data and Information Systems. Tom was an avid golfer. After retiring, he and his wife Barbara (also a past TRW employee) moved to Buford, South Carolina.

**Edwin Glenn**, 94, passed away on 1 July, 2022 in Rancho Mirage, CA. He attended the University of California (now UCLA) where he received a BSME. Following his graduation he was an instructor and mechanical engineer in the Army. After the Army, Ed was a design engineer at the Ralph M. Parsons Company. He then worked at Douglas Aircraft before hiring into Space Technology Laboratories. He was a spacecraft thermal analysis and design engineer and worked on over ten major programs as a SPM, and finally became the Spacecraft Thermal Department Manager. In retirement he hosted one of our TDOT (Thermal Design Old Timers) reunions in 2002.

**George Marsh**, February 21, 2022. George was an employee of TRW for 29 years and passed away from Parkinson's at his home in Laguna Woods. He retired in 1986 after working on the Pioneer 10 project. He leaves his wife, Barbara, after 76 years of marriage, 3 daughters, six grandchildren and 5 great grandchildren, who all loved him dearly.

**Robert N. Schreiner**, 87, June 3, 2022. Robert worked for TRW for over 33 years and retired in 1992. He was a test site manager for several classified projects. He headed a software team that developed the Maneuverable Reentry Vehicle tracking software. He was also proud of the contributions he made to the Apollo Program early in his career.

The first step in notifying Northrop Grumman of a retiree's death is to call the Northrop Grumman Benefits Center. If the deceased was a member of TRA, please notify TRA whether you want the NNG continued or you want to be removed from future mailings.

If you know of a person that should be included in the "In Memoriam" column, please inform us by either email or mail to the TRA office. As a minimum, we request the name of the deceased, date of death, and the name of the person submitting the information. If more information is available and desired, include age, position and years at NG/TRW, any notable programs, and special skills.

*Happenings - from Page 4*

million pounds of thrust, which is more than 75 percent of the rocket's total thrust."

Northrop Grumman developed these boosters with a fifth segment and 25 percent more propellant and power compared to the boosters used on the Shuttle program. At launch, the 177-foot-long boosters will produce 3.6 million pounds of thrust supporting the heavy-lift capabilities and mission objectives of the SLS rocket and Artemis.

Northrop Grumman will continue to boost SLS through 2031, and also help protect astronauts with the abort motor and attitude control motor for the Orion spacecraft's launch abort system atop the SLS rocket. Additionally, the company supports Artemis by providing the Habitation and Logistics Outpost module for NASA's

Gateway and is internally developing a lunar terrain vehicle which supports human and robotic exploration of the moon and beyond.

## Northrop Grumman-built Landsat 9 Earth Observation Satellite to Transition Operations from NASA to US Geological Survey

NASA and the U.S. Geological Survey (USGS) officially marked the handover and commencement of operations of the Landsat 9 Earth observation satellite. Landsat 9 was designed, built and tested by Northrop Grumman Corporation at its Gilbert, Arizona satellite facility and was launched into orbit aboard an Atlas V rocket in September 2021. The satellite completed its systems verification and commissioning in late July 2022.

"Northrop Grumman-built satellites like Landsat 9 are vital to tracking the state of our planet," said Mike Witt, chief sustainability officer, Northrop Grumman. "The data they collect is vital to analyzing, predicting and addressing changes to ecosystems, helping us to better understand the role sustainability plays in securing a safer world."

Landsat 9 will collect space-based images and data that will aid researchers in areas including agriculture, geology, land use mapping, forestry, global change research and water resource management. The Landsat images further support international emergency and disaster relief to save lives of those in areas most affected by natural disasters. Landsat 9 is based on Northrop Grumman's flight proven LEOSTAR-3 platform and extensively leverages the design of the Landsat 8 spacecraft, which has been in service since 2013.

"Landsat 9 continues the uninterrupted monitoring of our Earth by building on the 50-year legacy of the NASA and USGS Landsat system," said Steve Krein, vice president, commercial and civil satellites, Northrop Grumman. "This is the fourth Landsat satellite built by Northrop Grumman that plays a critical role of global observation for monitoring, understanding and managing Earth's natural resources."

## NOAA, NASA, and Northrop Grumman Complete Major Testing for JPSS-2 Before Launch

The National Oceanic and Atmospheric Administration (NOAA), NASA, and Northrop Grumman have completed the final major test of the Joint Polar Satellite System (JPSS)-2 spacecraft ahead of its delivery to Vandenberg Space Force Base, California, for launch.

JPSS-2 is the second of four satellites in NOAA's JPSS weather tracking constellation and will launch atop a United Launch Alliance (ULA) Atlas V 401 rocket in November. This Atlas V launch will mark the final flight of an Atlas-series rocket from California as well as the final flight of the rocket's 4.2-meter fairing configuration.

JPSS-2 is the first satellite of the series based on Northrop Grumman's LEOSTAR-3 satellite bus. LEOSTAR-3 is a flexible satellite bus for low-Earth orbit (LEO) operations and was first used in 1998 for NASA's Deep Space 1 mission as a test bed for multiple new technologies. It was most recently used for the USGS/NASA Landsat 8 and Landsat 9 missions.

Next up for the JPSS program are the JPSS-3 and JPSS-4 satellites. JPSS-3 and JPSS-4 are planned to be launched in 2028 and 2032, respectively.



P.O. Box 1276  
Redondo Beach, CA 90278

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The next NNG will be  
mailed in November.

## THE MAIL POUCH

*By Pam Overton*

◆◆◆ From **Evelyn Cawagas** - I started working at TRW in 1978 and retired in 2001. I was hired in to the Message Center by my wonderful supervisor, **Betty Candlin**. Our office took care of and handled faxes and teletype messages for TRW employees, both domestic and overseas. Later on, the Message Center was combined with the Switchboard Dept. and the Data Technology Dept. and we all became part of Information Technology Systems. After retirement, I did some traveling. To keep myself busy, I am still working part time in the leasing office of an apartment complex. I am lucky enough to keep in touch with some of my friends from TRW who are also retired. I have two wonderful daughters, and three adorable grandchildren and am so, so, lucky to have a beautiful and sweet great-granddaughter. I am happy to join TRA and keep up with the happenings at TRWonderful.

◆◆◆ From **Sandy Cash**, who has just returned from another travel adventure! Home safe and sound from my 3-week road trip. Perfect weather all the way, except for a half hour Monsoon in New Mexico. Handled it well. I stayed behind a big rig at 15 miles an hour in a 75-mile an hour speed limit zone. Drove through many states: Arizona, New Mexico, Texas, Tennessee, North Carolina, Florida, Kansas, Missouri, Iowa, Wyoming, Nevada, and back to California. AAA handled all the hotel and Inn bookings. They did a marvelous job. For the most part, we drove anywhere from 5 to 7 hours a day. We took 5 days going East and 4 days coming back home to the spectacular West coast. I so enjoyed spending fun,

quality time with 4 of my 5 grandchildren, my granddaughter-in-law **Hailey**, Hailey's Mom, my daughter **Becki Lynne**, and a couple of **Dallas Smulson's** friends. We enjoyed Myrtle Beach for the weekend celebrating my grandson **Trebor** Cash's birthday, and a day at the Winchester Mystery House to celebrate my daughter Becki's birthday. I introduced **Sunny** Cash and **Michelle** Cash to casino slots. Trebor introduced his brother and cousin to shooting. Jet skiing and a helicopter ride was a highlight at Myrtle Beach. As many of you may know, I have 4 cats. My #2 grandson took care of them for me while I was exploring and enjoying my road trip. If you haven't done a road trip across America, I highly recommend it. We have a beautiful country with so much to encounter and appreciate. ◆◆◆

### Mail Pouch Items

When people talk to me about the newsletter they always mention how much they love hearing from other retirees in the Mail Pouch. It is easy to send in a brief note about what you are up to. Contact us by e-mailing the Mail Pouch at [mailpouch@tra-spacepark.org](mailto:mailpouch@tra-spacepark.org) or by mail to Mail Pouch, P.O. Box 1276, Redondo Beach, CA 90278.