

TRA's
No Name

GAZETTE

For Northrop Grumman & TRW Legacy Retirees

VOL. XXXIII NO. 5

Our 33rd Year

September/October 2021

Join Us for a Virtual Event with Steven D. Lunny

TRA is pleased to announce that we have arranged for a Zoom virtual event with Steven D. Lunny, vice president and program manager for the Ground Based Strategic Deterrent (GBSD) Engineering and Manufacturing Development (EMD) program in the Strategic Deterrent Systems Division at Northrop Grumman's Space Systems, who will provide a top-level overview and answer questions on the GBSD mission and program.

The event will be on Friday, October 15th, 2021, at 9:00 to 10:30 AM Pacific Daylight Time.

Online registration for this event is required and is available at our website, www.tra-spacepark.org. The Zoom meeting details will be provided by email upon your registration. You will be able to submit questions in advance and you will have an opportunity to ask questions at the end of his talk. We plan to record the event and the video will be available on our web site if you can't join us in real time. Please note that depending on his schedule and customer needs, there is always a chance we might have to reschedule. We will notify registered participants if that occurs.



*Steven D.
Lunny*

GBSD is a vital U.S. Air Force program to modernize the nation's Intercontinental Ballistic Missile (ICBM) system. In his role as program manager, Lunny is responsible for cost, schedule and technical execution of the GBSD EMD contract activities and the overall management of the industry team responsible for modernizing the land leg of the nuclear triad.

Previously, Lunny served as vice president and program director for the Advanced Mission Programs Portfolio for Space Systems at Northrop Grumman's Aerospace Systems (NGAS), vice president of the Integrated National Systems business unit within Northrop Grumman's Mission Systems (NGMS) and vice president and program manager for the New Moon program within NGMS. Earlier within NGAS, Lunny served as the AMP deputy program manager and as the program manager for the Advanced Technology Programs (ATP) and served as director of System Engineering at Northrop Grumman's former Space Technology sector. Lunny has more than 37 years of system engineering and program management experience, spanning payloads to mission levels throughout all phases of the system development cycle across multiple missions and customer communities.

Lunny earned a Bachelor of Science and a Master of Science in electrical engineering from the University of Virginia.

In September 2020, the United States Air Force awarded Northrop Grumman Corporation the \$13.3 billion EMD contract to develop a new nuclear missile, the GBSD, intended to replace the 50-year old Minuteman III (MMIII) ICBM. MMIII has been

deployed as the ground-based leg of the U.S. nuclear forces structure (the "Triad") since 1970.

MMIII first entered service around 1970 and has undergone several life extension programs over the past 50 years, the most recent of which occurred in the late 2000s and included a replacement booster and missile guidance computer. In the next decade, both of these components may face reliability concerns as they reach the end of their intended lifespan. A 2016 Pentagon study recommended replacing MMIII rather than conducting another life extension. The study concluded that the replacement system would meet current and expected threats, maintain the industrial base, insert more reliable technology, produce a modular weapon system concept, and reduce life cycle cost.

The GBSD EMD phase includes full system design, qualification, test and evaluation, and nuclear certification. Upon successful completion of EMD, the Northrop Grumman team will begin producing and delivering a modern and fully integrated ICBM system to meet the Air Force's schedule of initial operational capability by 2029.

In contrast with MMIII missiles, the GBSD employs a modular design and open architecture, allowing for the replacement of aging and outdated components. According to the Air Force, this modular approach would reduce the life-cycle cost of GBSD and provide flexibility for improvements throughout the life of the weapon system. Unlike in many current DOD systems, open systems architectures allow the Air Force to control the intellectual property of the system, including the system's source code.

This allows multiple vendors, in addition to the contract winner Northrop Grumman, to compete for and complete future upgrades and improvements to the system. These types of upgrades might become important as technology evolves and could allow for improvements in the safety and reliability of the missile system. They could include better guidance systems or new types of countermeasures that might allow the missile to penetrate an adversary's ballistic missile defensive systems.

The MMIII engines use heavy steel casings to house the missile propellant. These casings add to the weight of the missile and affect its flight range and payload capabilities. Modern rocket boosters, like the Navy's D5 Submarine Launched Ballistic Missile, use composite material to save weight and increase potential payload. GBSD's boosters use a composite material, making GBSD significantly lighter than the MMIII. Most notably, this will increase the missile's throw weight, which is a measure of the weight of the payload that the missile can deliver to a particular range.

Please plan to join us for what will be an interesting presentation.

TRA for Northrop Grumman Retirees

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

2021 Officers

Mary Ann Chory	President
Michael Narigon	Vice President
Charles Clendening	Treasurer
Pam Overton	Secretary
Dena Bouskos	Past President

2021 Directors-at-Large

Joyce Komatsu, Jim Nelson, Carol Schamp,
Steve Smith, Stephanie Sundius, Jack Trost

Archives Coordinator: Robert Doll

Facebook Coordinator: Stephanie Sundius

Membership Coordinator: Joyce Komatsu

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

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By Mail:

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

By Phone:

310-813-7745 for voice mail.

By Email:

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

By Web:

Our website 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. Register, log on, and browse.

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.

As everyone knows by now, Covid-19 protection protocols have affected in-person meetings. 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.

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	Send ideas for meeting location	2 November 2021, 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	On hold due to Covid-19		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
Northern Virginia	Zoom	3rd Friday, 11:30 AM	Social	Jim Miller 703-483-5448 jmiller158@gmail.com
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	http://sandiego.tra-spacepark.org Jim Denton 858-385-0150 JWDenton@san.rr.com
Temecula Valley	On hold due to Covid-19		Social	Maureen Locken 951-818-6811 Maureen_Locken@yahoo.com
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

New TRA Members

Brian Burdiak	Manhattan Beach, CA
Steven D. Lee	Irvine, CA
Theresa McGibney	Torrance, CA
Ron Roberts	Torrance, CA
James Stroesenreuther	Lexington, KY

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

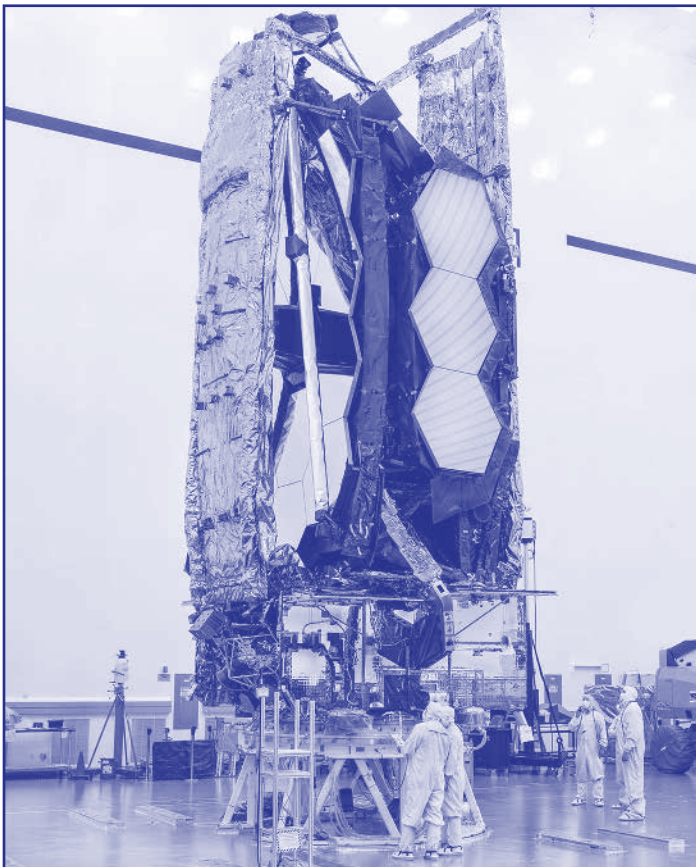
HAPPENINGS AT NORTHROP GRUMMAN

NASA Readies James Webb Space Telescope for December Launch

NASA plans to launch the James Webb Space Telescope (JWST) into orbit Dec. 18, 2021, to serve as the premier deep space observatory for the next decade.

The agency set the new target launch date in coordination with Arianespace after JWST recently and successfully completed its rigorous testing regimen – a major milestone for the mission. The new date also follows Arianespace successfully launching an Ariane 5 rocket in late July and scheduling a launch that will precede Webb. The July launch was the first for an Ariane 5 since August 2020.

JWST will launch on an Ariane 5 from Europe's Spaceport in French Guiana on the northeastern coast of South America. ESA is providing the Ariane 5.



JWST in preparation for final closeout and shipping

The highly complex space telescope is currently resting in its final stow configuration at Northrop Grumman's facilities in Redondo Beach, California.

"JWST is an exemplary mission that signifies the epitome of perseverance," said Gregory L. Robinson, JWST program director at NASA Headquarters in Washington. "I am inspired by our dedicated team and our global partnerships that have made this incredible endeavor possible. Together, we've overcome technical obstacles along the way as well as challenges during the coronavirus pandemic. I also am grateful for the steadfast support of Congress. Now that we have an observatory and a rocket ready for launch, I am looking forward to the big day and the amazing science to come."

The JWST team is preparing for shipment operations, during which the observatory will undergo final closeout procedures and packing for its journey to the launch site. The major elements of the Ariane 5 rocket that will carry JWST into space have safely arrived in Kourou, French Guiana, from Europe.

Northrop Grumman Space Business Exceeds Expectations With 34% Growth

Northrop Grumman reported strong second quarter financial results, led by a number of programs in its Space Systems and Mission Systems segments. The company again raised its top and bottom-line guidance for the year.

Net income increased 3% to \$1.04 billion, \$6.42 earnings per share from \$1.01 billion (\$6.01 earnings per share) a year ago, smashing consensus estimates of \$5.85 by 57 cents per share. Federal taxes were higher in the quarter. Sales also increased 3% to \$9.2 billion from \$8.9 billion.

The top and bottom-line results were impacted by the sale earlier this year of Northrop Grumman's information technology (IT) solutions business to the private equity firm Veritas Capital. Excluding results from that business, organic revenue climbed 10% in the quarter.

Happenings - continued Page 5

Return to Sender, Address Unknown

Each time we send out the newsletter to our members, our mailing service checks the mailing list against the US Post Office address change database. This database contains the information from the little card you fill out when you move. This check catches most member address changes. We also appreciate when members write, call, or email us with address changes.

The newsletter is mailed at a postage rate such that the Post Office doesn't return undeliverable newsletters to us. However, when we send out postcards, we send them at a postage rate where undeliverable postcards are returned. Our last mailing had an unusual number of undeliverable postcards returned.

If you have contact information for the people in the list below please let TRA know so that we can update our mailing list.

Malcolm Coffman	Madisonville, KY
Gene Hair	Big Pine, CA
Robert Hession	Pinehurst, NC
Donna Hoy	Mesa, AZ
Roger Orman	Rancho Palos Verdes, CA
Leonita Saldivar	Las Vegas, NV
Delo Schultz	Santa Clarita, CA
John Vehrencamp	Redondo Beach, CA

Please Vote for Your 2022 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 (if you're not already registered for an on-line account, take a few minutes to register) and click on the "2022 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 November 15, 2021 to be counted.

We want to thank Jim Nelson, Carol Schamp, Stephanie Sundius, and Jack Trost, who will all continue as TRA director-at-large in 2022.

Here are the 2022 board nominees:

President: DENA BOUSKOS: Dena retired from Aerospace Systems Sector in 2011 after almost 38 years of service. During her career in Human Resources, she held a number of senior HR positions in various organizations across the Sector. She became familiar with TRA when it reported to her for 5 years while she was the Director of Compensation, Benefits and HRIS. Dena served as TRA president for the 2015/2016 term and as past president for the 2017/2018 term. In addition, she has been handling office administration/management for TRA since 2015. When not working on TRA, Dena spends her time catching up with friends and family, traveling and trying to keep up with the 'never ending' projects around the house.



Vice President: MARY ANN CHORY: Mary Ann retired from Northrop Grumman in 2013 with 33 years of service. She joined TRW in 1981 after working three years at TASC. Mary Ann received an M.A. from University of Minnesota, an M.A. in Teaching from University of Chicago and a B.A. from St. Mary's College, Notre Dame, Indiana (all in mathematics.) She worked the majority of Northrop Grumman's space programs in all phases of development. Her assignments ranged across many disciplines: systems engineering, control systems, and hardware development. These included director-level positions in program, functional and technology development. Mary Ann is the current TRA president and was previously TRA secretary and director-at-large.



Secretary: 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, 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. Over the last 18 months she has helped facilitate the Zoom board meetings and special events for TRA.

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 B.A. in Classical Languages and an M.B.A. from Cal State University Long Beach. She thoroughly enjoys retirement. She has lots of hobbies including cooking, baking, reading, sewing women's apparel, and volunteers in several organizations to feed vulnerable people. She is currently a TRA director-at-large and TRA membership coordinator.



Director-at-Large

CHARLES CLENDENING: Charles retired in 2012 after 35+ years at Northrop Grumman. He joined the TRW ATD Engineering Sciences Laboratory after a short Air Force tour. Charles received a B.S. degree from Case Institute of Technology and a Ph.D. in Physics at Cornell University. He supported a number of diverse programs primarily in laser-related areas. His final assignment was as a Technical Fellow and the Chief Scientist on the ABL Program. Charles is the current TRA treasurer.



BOB DOLL: Bob spent most of his 30 years at TRW/NGC in the Ground Systems Department of the Hardness and Survivability Laboratory. He supported cryo-cooler flight vibration testing and dynamic loads analysis for Titan IV and Delta IV boost vehicles for Launch Systems Integration. He obtained his B.S. Mechanical Engineering from CSULA, M.S. Mechanical Engineering from USC, and Ph.D. from UC Berkeley. He retired in 2004. Bob is a past treasurer and past president of TRA.



MARCY MORRISON: Marcy retired in 1998 (kind of), but worked as editor/coordinator on proposals for 10 more years. She is Chairman of the activities committee for TRA, helping to make the Holiday party, Spring Fling, and Summer Reunion enjoyable gatherings for our retirees. She also helped form the fund raising arm of 1736 House. She was 1 of 5 winners for Woman of the Year award. She is active in garden club, square dancing, traveling, hiking, and plays. Marcy was previously TRA director-at-large.



Ballot - from Page 4



MICHAEL NARIGON: Michael retired from Aerospace Systems in 2014 after almost 30 years with TRW/NGC. He started in the Controls Engineering Department in Building 82. He took a stint at a small start up in Washington state to commercialize laser communications in 2000. He received a B.S. in Aerospace Engineering from Iowa State University and an M.S. and Ph.D. in Aeronautics and Astronautics from Stanford University. He is currently the editor of the No Name Gazette and was previously TRA vice-president, secretary, and director-at-large.



STEVE SMITH: Steve spent a total of 15 years at TRW/NGC (1985-88; 1995-2007) before retiring. He was a Ground Segment Systems Engineer on several restricted programs. Steve has a B.A. in Math from University of Richmond, and post-graduate studies at Virginia Polytechnic Institute and UCLA with focus on astronautical engineering. He is currently the webmaster for the TRA website. Steve is a longtime active volunteer for AFS international programs for high school students and has hosted 16 students from 12 different countries over the years.

HAPPENINGS AT NORTHROP GRUMMAN

Happenings - from Page 3

Space Systems, the company's fastest growing segment, led the charge, posting strong double-digit gains in sales, up 34%, and operating profit, up 44%. Northrop Grumman cited various programs in the segment for the results: the Ground Based Strategic Deterrent (GBSD) ICBM and Next-Generation Interceptor missile defense development efforts, NASA's Commercial Resupply Services to the space station and Artemis lunar programs, hypersonic and classified programs, and the Next Generation Overhead Persistent Infrared satellite program and risk retirements.

Asked on the company's earnings call why sales and profit in the Space Systems segment are expected to decelerate in the second half of the year, Kathy Warden, chairman, president and CEO, replied that, "This business has exceeded our expectations frankly since it was stood up 19 months ago and we aren't betting against it in the second half, but generally we don't forecast that kind of success that the business is having, but we certainly strive to deliver it and that's what the team has been doing all year to this point."

The increases at Space and Mission Systems more than offset declines at Defense Systems, which suffered from the IT business divestiture and the close out of an Army ammunition contract, and flattish results in the Aerospace Systems segment.

Strong results in the first half of the year combined with an improved outlook for the second half led the company to raise its guidance for 2021. Sales are now forecast to be between \$35.8 billion and \$36.2 billion, \$500 million above the prior outlook.

Adjusted earnings are now expected to be between \$24.40 and \$24.80 EPS, up from the previous projection of \$24 to \$24.50. The increase is largely being driven by operating improvements.

Northrop Grumman notched \$6.5 billion in orders in the quarter and backlog at the end of June stood at \$76.6 billion, down 5% from \$81 billion at the end of 2020. Adjusted free cash flow in the quarter was \$1.2 billion, which included a \$390 million gain from the sale of the IT business.

IN MEMORIAM

Raymond Thomas (Tom) Bell, 79, June 26, 2021. Tom retired after 20+ years at TRW/Northrop Grumman as a Sr. Engineer.

Robert J. Demshki, January 7, 2021.

John DeVillier, 97, June 22, 2020.

Linda Newkirk Flory, 80, January 24, 2021. Linda worked at TRW Systems Group for 25 years in business management and data analysis until her retirement.

George Gleghorn, 94, August 27, 2021. George started at Ramo Woolridge in 1954 with badge number 55. He worked in the aerospace industry for four decades holding numerous advisory positions while publishing five scientific papers on computer science and aeronautics. He was a digital computer designer, systems engineer, manager of scientific satellites and a vice president and manager in space defense, product integrity and space vehicles, among other positions.

Sam Houston, 81, July 18, 2021. Sam was a systems engineer at TRW. From Clayton Kau, "As a newly minted communications engineer just out of school, I benefited from being in a System Engineering Laboratory full of brilliant minds with impressive academic backgrounds. Most wore coats and ties; many had Ph.D.s; and they went out of their way to teach us how things were done at TRW - everything from inter-modulation analyses to link budgets. One larger than life luminary was "Big Sam" Houston."

Hyo Myung Kim, 2013.

Michael LeBlanc, 80, July 22, 2021. Michael joined TRW in the mid-1970s at Space Park and served 20 years at Pine Gap, retiring to Colorado in 1996. After retirement, he was very active with the New Horizons Band in Colorado Springs.

Ronald A. Rout, June 7, 2021. Ron was a retiree of TRW/NG and was proud to be a part of the electronic and mechanical quality engineering team serving the I&T group on numerous projects since the 60's. He worked buildings M2, M4, etc. Ron really enjoyed working with his many good friends. He was a Korean war vet who was awarded the Soldiers Medal.

Guenter Wrase, 88, April 24, 2021. He worked for TRW as an Engineer for 30 years.

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.

2021 Holiday Party Canceled

The board has been monitoring the COVID-19 situation and decided to cancel the 2021 Holiday Party. We are starting to plan for a 2022 Spring Fling and look forward to getting back together.



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The next NNG will be
mailed in November.

THE MAIL POUCH

By Pam Overton

◆◆◆ From **Don Lee** - I'm still "hanging in" up on Whiskey Island in the great NW. Just passed 90. I'm signing up for 3 more years of TRA - how's that for optimism? My wife passed away two years ago after 64 years of marriage. I'm learning to live alone but keep busy with my 3.5 acre garden and volunteering at the Meerkerk Rhododendron Botanical Garden. Love reading about NG winning the great new contracts.

◆◆◆ From **Norma Bougher** - Still living here in Southern Missouri, overlooking beautiful Table Rock Lake. Been leading tours all over the U.S. and Canada for the past 25 years, just a couple each year, when I decided to slow down or stop, COVID-19 did it for me. Hope to cruise in 2022 with family.

◆◆◆ For **Ed Wheeler** an "end of an era" has occurred. He just sold his last Beechcraft Bonanza plane on February 12th. Ed's been flying since 1973. He and **Jim Anderson** partnered in the buying of N5085C and sold it in August 1988 when Jim retired from TRW. In late 1988 Ed bought N333FD. He flew it to Alaska, Hudson's Bay, the Bahamas, and many other places in the U.S. Then, in 2006, it was destroyed on the ground by another plane during a violent thunderstorm in Appleton, WI. Several months later Ed bought N244JN and flew it many places in the U.S. Recently, because of COVID restrictions, he was not able to fly much and finally decided it was time to sell. He still has his pilot's license and now has time to continue building his experimental RV6A airplane. He and **Suzanne** are in good health and have been living in Westchester for 58 years.

◆◆◆ **Joe Larkin** rejoined TRA for another three years and reports that after 34 years on a golf course in Rancho Bernardo, he

and **Darlene** sold their house, downsized, and moved into a 55+ community still in Rancho Bernardo, and still on a golf course. Joe is happy with a golf cart in the garage that he drives to the Rancho Bernardo Inn golf course at least once a week. Darlene is happy with the single-story home that is half the size of the original casa. Both are well. They look forward to hearing from old friends and can be reached at joe208larkin@gmail.com.

◆◆◆ From **Diane** and **Allan Herschderfer** - We're living the good life in Palm Desert but this summer we've enjoyed visiting some of our timeshares in cooler climates. Earlier this year Allan finished the flip house he's been working on in Oceanside and it quickly sold! It's been a busy year for weddings in the family. In April grandson **Dylan** was married and in June granddaughter **Holly** was married.

◆◆◆ From **Michael Narigon** - I spent a week in Las Vegas with **Todd** and **Valerie Mendenhall** supporting Todd in the 2021 Battlebots robot fighter competition. Todd was a champion almost 20 years ago and decided a couple of years ago he wanted to build a robot again. I went to be a gofer and robot mover and really enjoyed the experience. It was great to see a lot of people interested in engineering as a hobby. Plus, we got a behind the scenes look at what goes on in a TV production. The series should be on Discovery Channel this winter/spring. ◆◆◆

Mail Pouch Items

Let us know what you are up to by e-mailing the Mail Pouch at mailpouch@tra-spacepark.org or by mail to Mail Pouch, P.O. Box 1276, Redondo Beach, CA 90278.

2021 Officers

Mary Ann Chory
President

Michael Narigon
Vice President

Pam Overton
Secretary

Charles Clendening
Treasurer

2021 Directors-at-Large

Joyce Komatsu**

Jim Nelson**

Carol Schamp**

Steve Smith***

Stephanie Sundius**

Jack Trost**

Completes term in 2021, **Completes term in 2022, *Appointed for 2021*

2022 TRA Officer and Director Ballot

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

Officers (One year term)

President

P-1: Dena Bouskos

P-2: _____

Vice President

VP-1: Mary Ann Chory

VP-2: _____

Secretary

S-1: Pam Overton

S-2: _____

Treasurer

T-1: Joyce Komatsu

T-2: _____

Directors-at-Large (Two year term) (Vote for five)

D-1: Charles Clendening

D-2: Bob Doll

D-3: Marcy Morrison

D-4: Michael Narigon

D-5: Steve Smith

D-6: _____

D-7: _____

D-8: _____

D-9: _____

D-10: _____

Don't forget, if you prefer, you can go to the tra-spacepark.org website and click on the "2022 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 November 15, 2021 to be valid.

Thank you for participating!

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2022 Ballot

Tape Edge

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