



Hughes Aircraft Retirees Association

Vol.20, Issue 2 P.O. Box 881835, Los Angeles, CA 90009

DEC. 2019



Facilities & Programs

By Lou Rader

No HARA General Luncheon Meeting until April 2020.

I hope you all have great Holidays and will meet you all with a great event program in 2020.

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HARA CALENDER

- Jan 9th HARA Board Meeting @ Kinecta
- Feb 13th HARA Board Meeting @ Kinecta
- Mar 12th HARA Board Meeting @ Kinecta
- APR 16th HARA General Meeting #133—TBD



PRESIDENT'S CORNER – 2019

By Fran Dailey

Our October meeting at the Los Verdes Golf Course was again a great success. Thank you to our loyal supporters! We had over 60 attendees, the venue was very pretty, the food was good and the Mariachi entertainers were excellent! Many thanks to Lou Rader for getting us back to this nice venue!

We had an interesting guest who we had not met before. A lady named Phyllis Ford was there, her father was Robert Ford and he was a member of the team who helped build and launch the Spruce Goose! She brought with her some very interesting old photos of Howard and the crew, and a wonderful photo of the Spruce Goose! We hope she will attend again and share those wonderful pictures! Thank you very much Phyllis!

We hope you will mark your calendars for our next meeting date which will be April 16th. As you recall, we reluctantly decided to eliminate a January luncheon due to the rising costs of our many venues. We have not determined the location as yet, but will let you know as soon as possible. The most important thing to us is just to keep our friendships alive! The HARA Board is working hard to keep our group together and we hope you will all join us in our efforts. Hope to see you there!

Cheers,
Fran



PHYLLIS FORD and FRAN DAILY



Raffle Winners 10/17/2019

By Carl Rubly

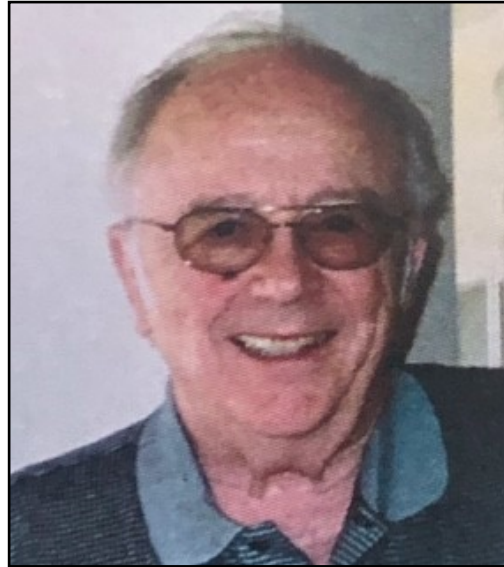
| | |
|----------------|------------------------------|
| Jackie Crowley | \$10 Starbucks gift card |
| Jack Bailey | \$10 Jamba juice gift card |
| Rex Ransom | \$15 Wing Stop gift card |
| Dale Quinn | \$10 Subway gift card |
| Bob Wong | \$10 Panda Express gift card |
| Donna McGovern | \$10 Champagne |
| Teri Vanos | \$23 Red Wine |
| Nancy Winter | \$8 White Wine |
| Nancy Winter | \$10 Cash |
| Lois Jones | \$10 Cash |
| Jack Bailey | \$20 Cash |

Obituaries

DAVID ROTBART

Mar 12, 1923 - Apr 10, 2019

Our sincere condolences to the family of David Rotbart.





Liz and Lowell Joynt



Susan and Joe Kiser



THE MARIACHI TESORO GROUP



Phyllis Ford and Walt Ordway



Soni Holmes and Maureen Brugh



John and Neva Benich, Bob Marsino, Jackie Crowley, Jim and Marjorie Green, Jon Olson



Marv Patrick and Carl Rubly



Sharon Rose, Carolyn Kilb, Claire and Ted Buell, Paul Sterba



Lynn Smith



Phyllis Fuller, Terri Vanos, Karleen Kueteman



Janet Ackman and Fran Dailey

MEMBERSHIP REMINDER

By Art Winter, Membership Chair

Your membership date appears just above your name and address on the back of each "HARA FLYER"; our dues pay for this quarterly newsletter. Please complete the "membership application for renewal or new member", (remembering your e-mail address) and send with a check today for \$10 annually, to PO Box 881835, Los Angeles, CA 90009-3013, which is located below your name & address on the back page. You can also just send your E-mail Address to me below, if already a member in good standing.

Art Winter

tuna69@sbcglobal.net

CHECK OUT OUR WEBSITE

WWW.HUGHESHARA.COM

Every effort will be made to keep this up to date for you. If you lose or misplace your newsletter, you can get another one plus the calendar of events from the website.

Also visit Hughes Tucson Retirees Assoc. at:

www.hughestra.com/

MEMBERSHIP NEWS

Since our Sept newsletter, HARA welcomes the following new members:

Nancy Thompson, Ralph & Annette Clark, Ed Hollowell, Janet Johnson, Marvin Ramirez

We have also had 65 renewals, for a total membership of 469.

Please check the expiration date listed above your address on the newsletter, as we currently have 34 delinquent members. We sadly had to drop 15 of the previously 31 delinquent members for non-payment of dues.

Please stay on the lookout for retired friends and encourage them to join HARA.

We are looking for any Hughes legacy companies' retirees that may not know about HARA.

Thanks for your attention.

Art Winter

Please note, the Post Office will not forward our Newsletter, so be sure TO let us know of a change of address.

HARA Membership Application

For Renewal *or* New Member

Type of application: ____ Renewal Or ____ New Member

Name: _____

Street Address: _____

City _____

State: _____ Zip + 4 _____

Phone Number:() _____

E-mail Address: _____

\$10.00 per year.

Mail your check, made payable to HARA,

To:

HARA

Attention: Membership

P.O. Box 881835

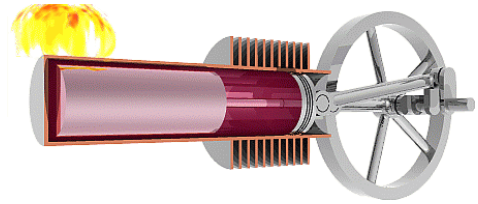
Los Angeles, CA 90009-3013



DOWN MEMORY LANE!!!

Former Hughes Employee Awarded Patents

Ken Cowans has recently been awarded two new patents.



They were granted July 9, 2019, and August 18, 2019 to BE Aerospace. These are for cryogenic cooling in the field of heat transfer, his main area of expertise for the past 62 years.

Ken Cowans now has well over 100 major patents. He graduated from North Carolina State University in 1957 and came to California on a Hughes Fellowship. Ken was immediately given a job in the Cryogenics Lab with Jim Gudikunst because there was a job for a mechanical engineer, and he was the only one in a lab with 200 electrical engineers. Hughes News article, **HAC Cryogenics: Real Cool** from May 8, 1964 is a very interesting read. Refer to web link below.

Cowans first 16 patents were for inventions in the 12 years he was at Hughes Aircraft. He wrote "Heat Transfer in the Stirling Engine", 1961, a design book for engineers in the cryogenic department which was founded on Ken's work.

After leaving Hughes, Ken founded Kinergetics Inc., an international company built on his inventions in several fields. The main work was in life support systems for offshore diving. KI equipment was used in every major sub-sea operation throughout the world. His inventions allowed divers to live in habitats under compression for six months instead of having to come up, decompressing the same day they went down.

Additional information can be found under Archives: <http://blackgoldprints.com/news-and-information>



May 8, 1964 Hughes News—Henry Yoshimoto, Fred Millard, and Ken Cowans, from left, discuss the Mark IV/80-AAC closed cycle cryogenic refrigerator (left).

Ken and son, Will Cowans show their enthusiasm for Ken Richardson's book, *Hughes after Howard*. Will worked with Ken for many years and is also on the EPC Patent.

Will said, I know the science. Now I know where it came from.



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Howard Hughes' Flying Boat

MAIL TO:
TEMP RETURN SERVICE REQUESTED
Is your membership expiring?
see date by your address above!
Membership is \$10 per year, made
payable to and mail to:
HARA—Attention Membership
P. O. Box 881835
Los Angeles, CA 90009-3013

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| IMPORTANT TELEPHONE NUMBERS | | | |
|---------------------------------------|---|---|---|
| Retirement Check From | Hughes Electronics/ AT&T | Raytheon Systems | Boeing Satellite Company |
| Retirement Plan | 877-722-0020 | 800-542-4015 | 1-866-473-2016 |
| Savings Plan & Investment | 877-722-0020 | 800-354-3966 | 1-866-473-2016 |
| Benefits: Life, Medical, Death Claims | 877-722-0020 | 800-358-1231 | 1-866-473-2016 |
| AT&T Benefits Center | 877-722-0020 | Customer Service Domestic: 877-722-0020 Int'l: 847-883-0866 | Domestic: 877-722-0020 Int'l: 847-883-0866 |
| Ford Vehicle | 877-975-2600 Partner Code for Raytheon SK373 Also: 10% Discount on HP Products | 877-975-2600 | 877-975-2600 |