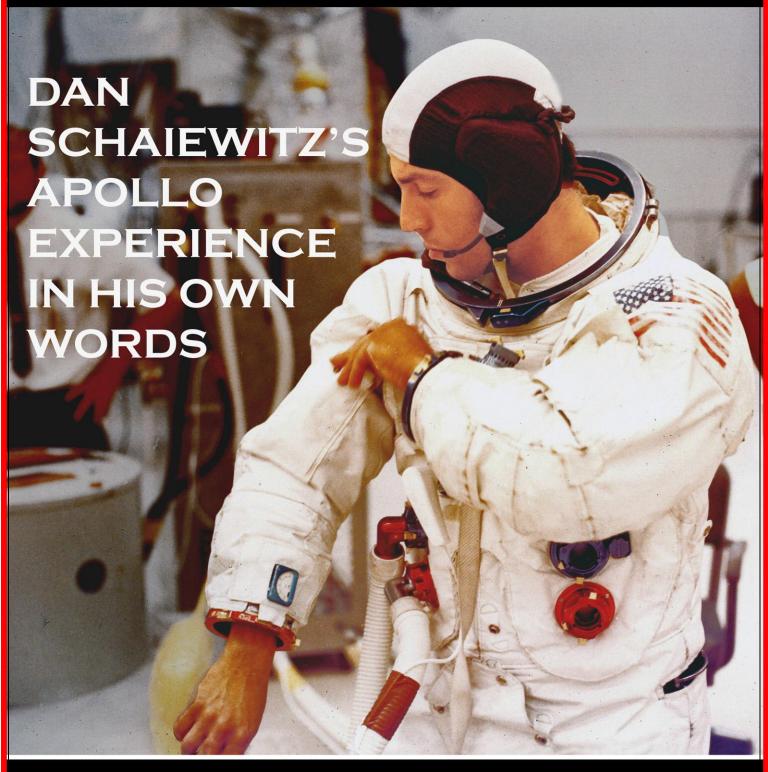
DANIEL ON THE MOON



Ever since I can remember, I wanted to be an astronaut

MY EXPERIENCE TRAINING APOLLO ASTRONAUTS

TO WALK ON THE MOON PART 1

DAN SCHAIEWITZ

APOLLO PROGRAM PORTABLE LIFE SUPPORT SYSTEM (PLSS) ASTRONAUT CREW TRAINING MISSION MANAGER, APOLLO SPACE SUIT TEST SUBJECT AND PLSS TEST ENGINEER

Ever since I can remember, I wanted to be an astronaut. When President Kennedy made landing a man on the moon a national goal, I wanted to become involved in the lunar landing program. I established my long range goals, i.e. obtaining a degree in engineering and getting a job involved with the complexities of keeping a man alive on the moon.

After obtaining my engineering degree in 1967, I was fortunate enough to have been offered a position with the company that had the contract for the Apollo Portable Life Support System (PLSS) which included the Emergency Oxygen Supply System called the "Oxygen Purge System" (OPS).

I arrived at Cape Kennedy Thanksgiving Day, 1968. I was so excited that I forgot it was a holiday and spent the entire day at the Visitors Information Center. Seeing the Vehicle Assembly Building, the Apollo 8 rocket on pad 39 and the rest of the space center was beyond the realm of my imagination. It was difficult to believe that I would be a part of a team that would change science fiction to science fact.

As I began my assignment at the Kennedy Space Center (KSC), I became very inquisitive and was determined to get involved in every way possible. I read every document and manual related to space suit operations I could get my hands on.

As we got closer to Apollo 11, the mission the whole world was looking forward to, I realized that I was an important part in making the mission a success. I worked six and seven days a week, 16 to 18 hours a day much of it on my own unpaid time looking for and "making" work. I felt guilty getting paid for the one thing I always dreamed of doing.

One of my most vivid memories was charging the Apollo 11 Life Support Systems. Four individuals, one technician, two quality control personnel and myself adding the life sustaining water and oxygen to the hardware that would be used in just a few days to support the first humans to walk on the moon. I felt a lot of pride along with a lot of butterflies.

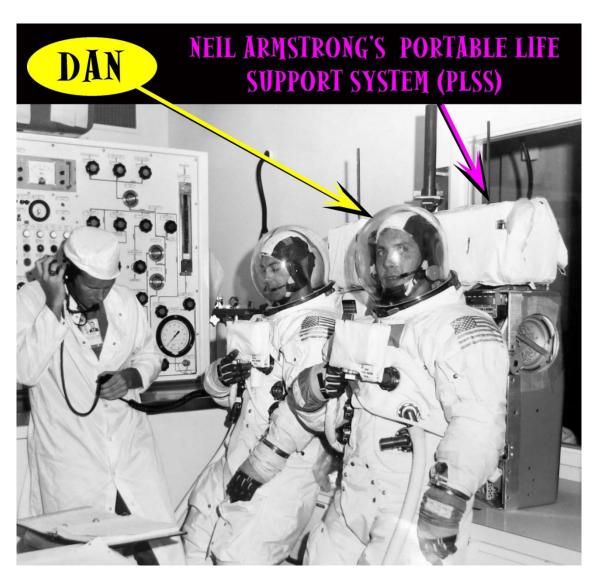
Alone one night at about 1AM at our KSC office, I found a memo that stated the Apollo 11 astronauts (Armstrong and Aldrin) were coming to KSC to practice their lunar surface activities and that our support would be needed. The following day I contacted the Manned Spacecraft Center (MSC) in Texas to find out all I could about the support that would be required. I then informed responsible parties at KSC of my desire to handle the support required without it interfering with my other responsibilities.

Subsequently I was assigned the position of Extravehicular Crew Training Engineer at KSC. The Apollo 11 training exercises went so well at KSC that the Apollo training office at the Manned Spacecraft Office in Texas decided to conduct all of the lunar surface training exercises at KSC.

One of the many aspects that made my "adventure" in the crew training area so interesting were the many times that I explained the functional aspects of the Astronaut Life Support System to so many inquisitive people, i.e. workers, reporters, dignitaries, etc. Being so interested in and so enthusiastic about my work, it gave me much pleasure and satisfaction to convey my enthusiasm to others.

I will never forget the first opportunity to wear the Apollo space suit, more specifically Neil Armstrong's suit. The scene took place in our "clean room". The purpose was to check out the Apollo 11 PLSS communications

from the Space Suit to the Spacecraft on Pad 39 to The Manned Spacecraft Center in Houston, Texas. The date was May 5, 1969. What an incredible experience knowing that I was verifying that the Spacesuit communications from the moon to earth and back was in fact working as designed to transmit the voices of the first men on the moon to the entire world.



Above: Here I am checking Apollo 11 communications using Neil Armstrong's Portable Life Support System (PLSS) Backpack

Subsequently, I had many opportunities to work with and test procedures using Apollo suits. Being intimately familiar with the procedures used by the astronauts inside the Lunar Module (LM), I was delegated to wear the space suits to develop, troubleshoot and verify procedures used by the astronauts. How close to actually being an astronaut can you get!



Above: Here I am on my way to the simulated lunar surface outside the KSC crew training building to test out modifications made to the life support training "backpacks."

My most memorable experience was the "journey" to the Apollo 11 spacecraft the night before the Apollo 11 launch to deliver the Astronaut Suit Life Support Equipment and "stow" it in the Lunar Module. There we were, four of us riding along the same route the giant crawler carried the 40 story rocket to pad 39. The destination of that monstrous rocket could be seen that night as a beautiful half sphere.

While riding toward the spacecraft, I kept having flashbacks of moon rockets I had seen in "Flash Gordon and Captain Video" TV series of the early 1950s. The closer we got to the base of the Saturn V rocket the faster the "butterflies fluttered"! Then the elevator ride to the Lunar Module level 36 stories high. The ride to our LM destination seemed endless as I watched the diameter of the rocket get smaller and smaller. When we passed the giant American Flag painted on the side of the rocket I felt proud to be an American.

Once inside the protective room that surrounded the Lunar Module, we removed the two Portable Life Support Systems (PLSS) and The Emergency Oxygen Purge Systems (OPS) from their protective containers. We then installed the hardware in their respective stowage locations. I had the distinction of crawling through the LM hatch into the LM to make the final verification of the PLSS controls and switches. I again could not believe where I was and how I got there. It was hard to comprehend that in just a few days these amazing Life Support Systems ("backpacks") would help make one of man's oldest dreams come true.

DAN WEARING "FIRST MAN ON THE MOON" NEIL ARMSTRONG'S SPACE SUIT



Above: Here I am evaluating Apollo 11 prep and post procedural changes before the Apollo 11 liftoff in the training LM at KSC wearing Armstrong's training suit.



Above: Here I am going through Extravehicular Activity (EVA) pre EVA and post EVA procedures before the astronauts went through the same procedures.

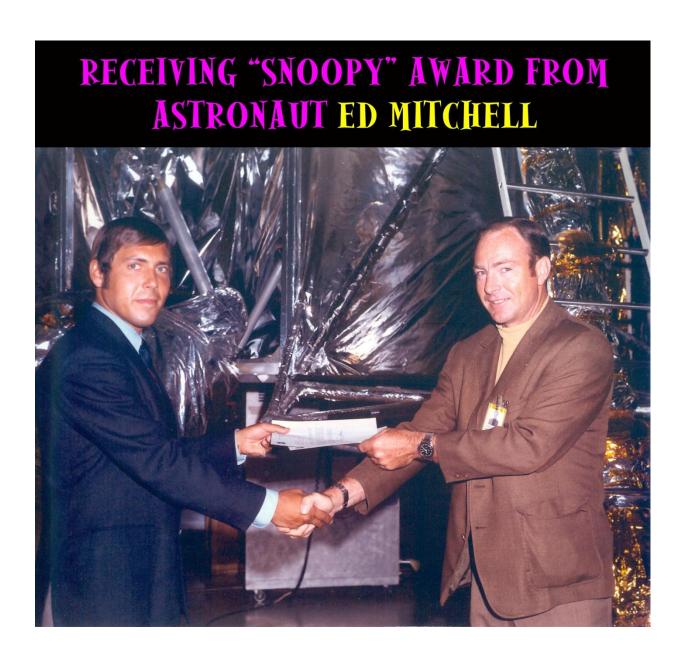
I'll never forget the instance that my name was referred to by Apollo Astronaut Eugene Cernan commander of the Apollo 17 flight while on the lunar surface. How many people can say they've had a shout out from the moon?

ASTRONAUT SILVER SNOOPY AWARD

I feel extremely proud to have received the "Silver Snoopy" Award from Apollo 14 astronaut Ed Mitchell (below photo). The letter included with the "Silver Snoopy" Award Pin was signed by Apollo 13 astronaut Fred Haise (below).

At the time I received the award I recall feeling "guilty" being recognized for accomplishments that were to me tasks that I considered part of "acting out my dream."

Looking back, I recognize the significance of the award and how lucky I was and how proud I now am.



"SNOOPY" AWARD LETTER SIGNED BY ASTRONAUT FRED HAISE



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

MANNED SPACECRAFT CENTER

HOUSTON, TEXAS 77058

REPLY TO ATTN OF: CB

Mr. Daniel Schaiewitz Hamilton Standard Division of United Aircraft Corporation ECS East Test Cell, HSD Kennedy Space Center, Florida 32899

Dear Mr. Schaiewitz:

As an engineer for Hamilton Standard, your efforts on the Apollo program have been highly professional and have contributed importantly to the success of our manned lunar effort.

This letter is our way of saying thanks for the outstanding support you have given us through quality work in monitoring cryogenics in the PLSS units and checking of flight hardware. We know that the success of our Apollo flights depends upon the skill and dedication of persons, such as yourself, who are willing to accept nothing short of perfection in getting the job done for manned space flight.

As a token of our appreciation, we would like you to have and to wear our own award, the "Silver Snoopy". This pin denotes excellence in workmanship to those persons whom we regard as the very best in their respective professions.

Sincerely,

NASA Astronaut

PHOTO OF ME TALKING TO APOLLO 11 ASTRONAUT ARMSTRONG (FIRST MAN ON THE MOON) DISCUSSING A MODIFICATION MADE TO THE LUNAR SURFACE CAMERA MOUNTING BRACKET TWO WEEKS PRIOR TO THE APOLLO 11 MISSION



LETTER OF COMMENDATION

Prior to an Apollo 16 crew training EVA exercise with Astronauts John Young and Charlie Duke in the Crew Training building at KSC, Charlie handed me an envelope and suggested I open it at the completion of the exercise.

When I opened the envelope, I found the below photo and letter. Looking at the photo of me (getting suited up) and my team members, I was extremely excited that I not only had a letter to share with my team, I also had a great photo.

I decided to make copies of both the photo and letter and gave each team member copies. You can't imagine how pleased they were to have memorabilia that recognized their outstanding contribution to help make Apollo 16 a success.





NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS 77058
(Kennedy Space Center, Florida 32899)

REPLY TO ATTN OF: CB

April 14, 1972

Hamilton Standard
Division of United Aircraft Corporation
Attn: Mr. E. H. Brisson
Field Support Manager
Mail Code HSD
Kennedy Space Center, Florida 32899

Subject: Letter of Commendation

We would personally like to commend Dan Schaiewitz and his team for their outstanding support during the extent of Apollo 16 crew training at KSC. Their 100% support without a single glitch was beyond our expectations. It can also be said that their diligent efforts in this difficult task contributed significantly to our preparedness for achieving the Apollo 16 mission goals. Many thanks to Dan and his team for a job well done,

Captain, U.S.N NASA Astronaut

Charles M. Duke, Jr. Lt. Colonel, U.S.A.F. NASA Astronaut

ME AND MY "TEAM" AS DISCUSSED IN THE LETTER FROM APOLLO 16 ASTRONAUTS YOUNG and DUKE



APOLLO 11 ASTRONAUTS ARMSTRONG AND ALDRIN CARRIED THE BELOW TIE TACK TO THE MOON FOR ME AS A MEMENTO TO THANK ME FOR KEEPING THEM SAFE DURING APOLLO 11 CREW TRAINING.



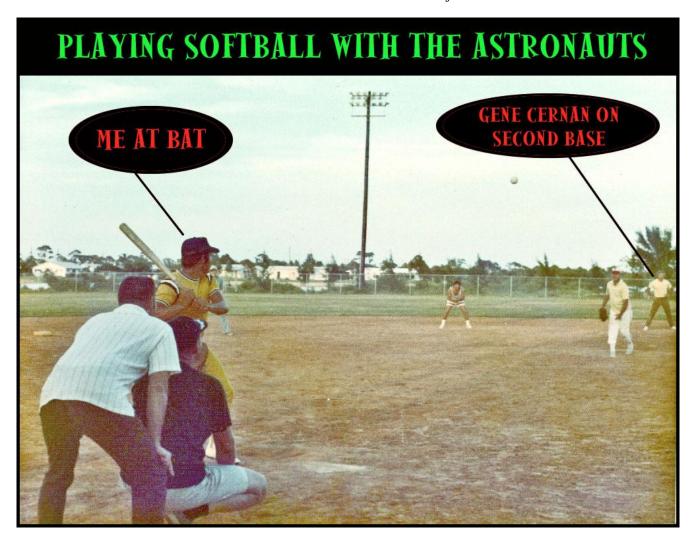


PLAYING SOFTBALL WITH THE ASTRONAUTS

On a number of occasions, the astronauts challenged contractor personal to play softball. As I recall, only 4 or 5 astronauts volunteered to participate. I was asked to play on the astronauts team. Somehow they found out I played in a softball league on Merritt Island, FL.

In the he photo below, I'm at bat with Apollo 17 astronaut Gene Cernan on second base.

It is very interesting to note (in Gene Cernan's book) that a few weeks before his Apollo 17 moon mission, Gene pulled a ligament playing softball and almost lost his chance to walk on the moon. Luckily the flight surgeon "secretly" helped Gene with ligament rehab. Guess where it happened. Yep, you guessed it, after I hit the ball to the second baseman astronaut Cernan slid into third base where he was injured.



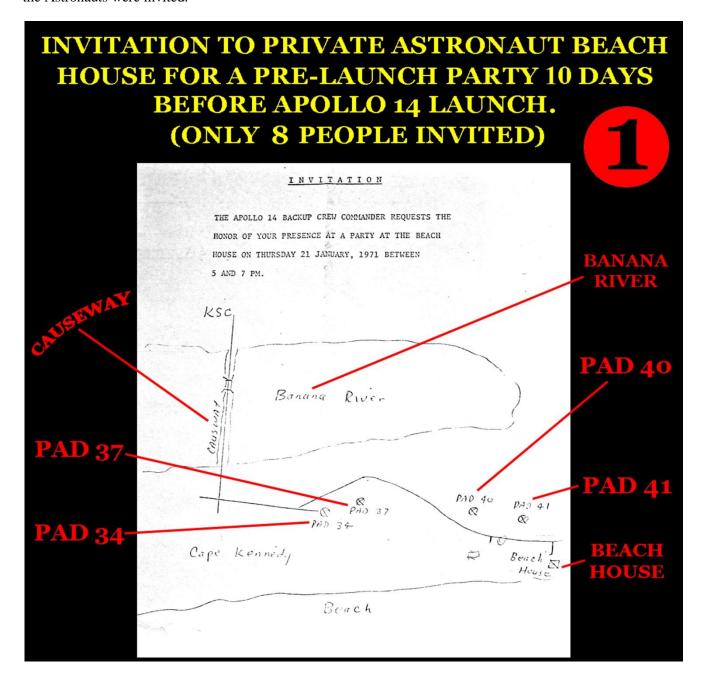
PARTY AT THE ASTRONAUT BEACH HOUSE

What Happens At The Astronaut Beach House Stays

What happened at the Astronaut Beach House stayed at the Astronaut Beach House. Well, not always!

I had the honor and privilege of being invited to a party at the Astronaut Beach House as the below Figure 1 suggests. The invitation read: The Apollo 14 backup Crew Commander requests the honor of your presence at a party at the Beach House on Tuesday 21 January, 1971 between 5 and 7 PM.

This Pre-Launch Party was held 10 days before the Apollo 14 launch. Eight people (including myself) other than the Astronauts were invited.

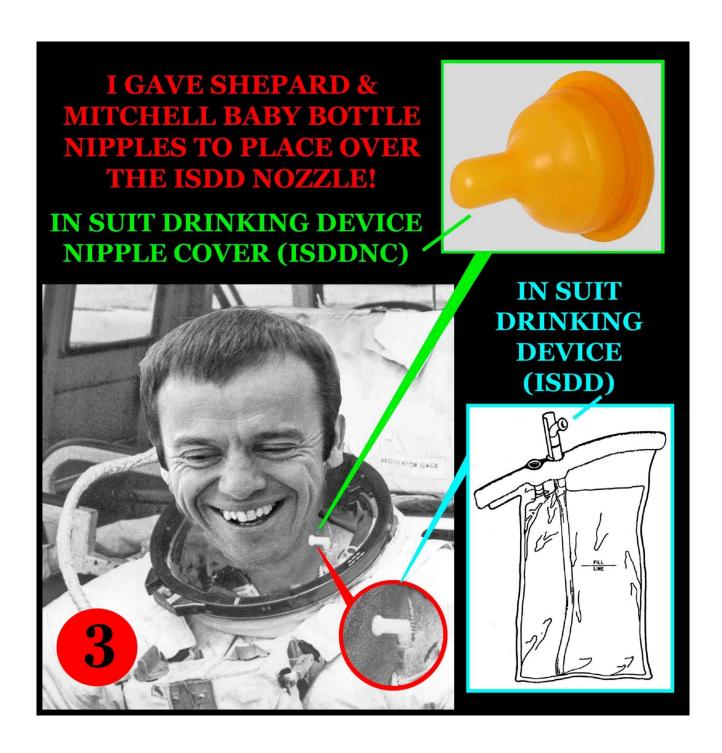


I wanted to add a bit of levity to the party by presenting Astronauts Shepard and Mitchell with "gag" gifts related to their upcoming mission. I had some reservations with what I was about to do as I was not sure Mitchell's sense of humor rivaled that of Shepard's. During EVA Crew Training exercises I can't recall Astronaut Mitchell laughing. On the other hand, Shepard was, on most occasions, ready to demonstrate his jovial, witty personality. I figured, worst case scenario was that I would be "protected" by Shepard if I alienated Mitchell!

The first "gift" I gave them was an "Enema Bag" that Mitchell is holding (Figure 2 below) to be used as a backup Urine Collection and Transfer Assembly (UCTA). Both astronauts, as you can see in the photo, laughed and could not stop laughing. Mitchell's laughter was a welcome relief and a confidence builder for continuing my mischief!



Here's some background about my next "gift". The In Suit Drinking Device (ISDD) was first used on Apollo 14. The purpose of the ISDD was to provide a source of drinking water during EVA. I can recall on a number of EVA runs, Astronaut Shepard complained that the ISDD nozzle was uncomfortable (not his exact word, but you get the idea) to use and, as he said, "I'd rather be sucking on a Baby Bottle Nipple". No further explanation needed as Figure 3 below explains it all.



Looking at the "perfect solution" to Al's ongoing In Suit Drinking Device "sucking" problem, Al said to Ed jokingly (I thought) "why don't we take this (the nipple) with us (to the moon) and try it out". What happened with the "Baby Bottle Nipple" is a story that Al revealed to me at a party at my apartment in Cocoa Beach. After returning from the moon, Al handed the "Baby Bottle Nipple" to me and related that he took it with him to the moon with the intent to "jokingly" try it out if the mission was "going well" and if there was time for a little levity. Al said that no one but "Deke" (Deke Slayton was the Chief Astronaut) knew about the prank. Slayton was also the only one that was aware of the smuggled golf club prank (Al also brought a golf club on his Apollo 14 mission). The bottom line according to Al was there was no realistic opportunity to discuss the "sucking" problem and the "Baby Bottle Nipple" solution.

My last "gift" was a backup camera to be used if the crew "misplaced the Hasselblad camera or had a non functioning Hasselblad. If I recall correctly, the backup camera was a cheap Kodak pocket instamatic. You can see Al holding it in his left hand.



CONDUCTING LUNAR ROVER PLSS FLIGHT HARDWARE COMMUNICATIONS TEST

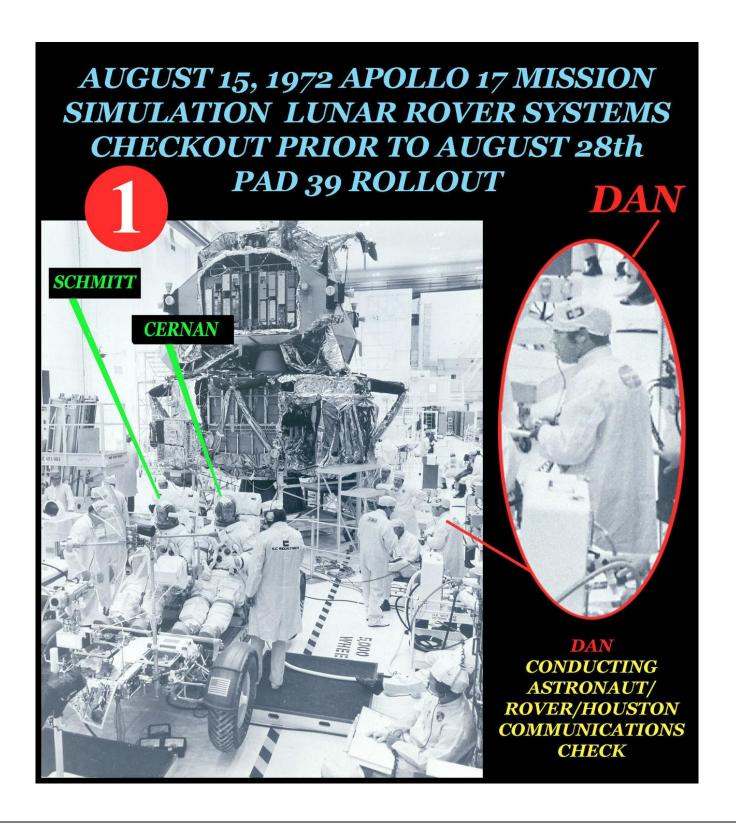
Many, many times I look back to my Apollo days at KSC and I still cannot believe that I was so intimately involved with helping the U.S. land on the moon.

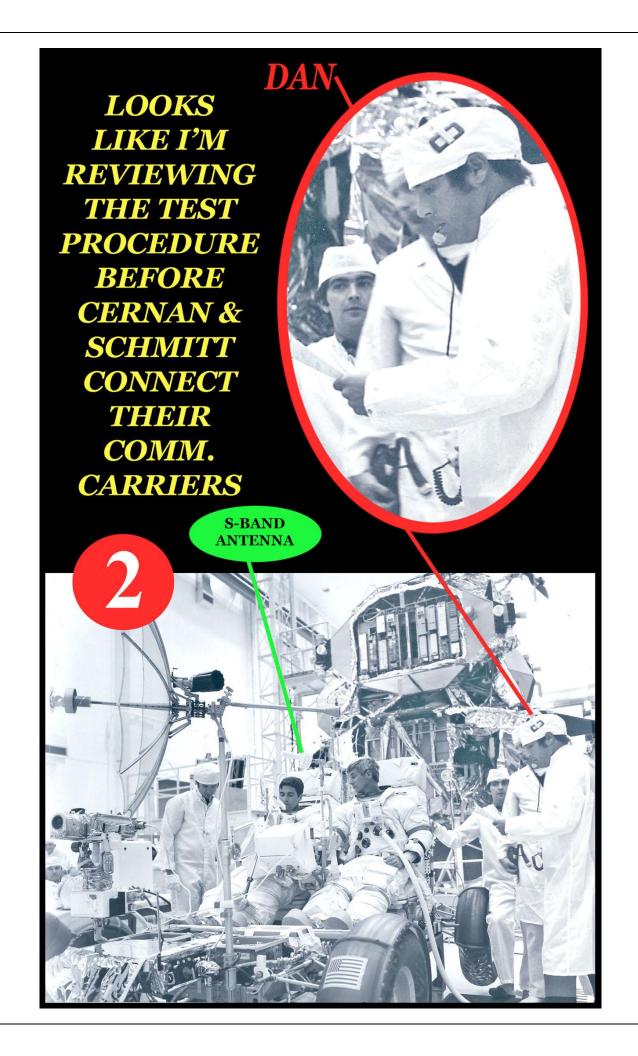
Case in point: Looking through my Apollo photos, I found the three (3) photos below taken on August 15, 1972 during a final mission simulation to check out the Lunar Rover and all its systems prior to the Apollo 17 mission.

How LUCKY was I to be assigned the task of conducting the procedures to check the communications (voice and telemetry) from the astronaut backpacks to the Manned Spacecraft Center (MSC) in Houston. I still get "goose bumps" thinking about it. As a youngster, I was a SPACE FANATIC and could never have dreamed that I would end up right "smack dab" in the middle of it all!

Getting back to reality, the lunar rover maintained direct radio contact with Earth using its own antennas and the Lunar Communications Relay Unit (LCRU). Voice and telemetry were transmitted via the low gain S-band antenna (identified in photo 2 below). This was the antenna used during the communications test that I conducted. The large "umbrella" antenna was used for TV transmissions.

If I recall correctly, I was a nervous wreck and was unable to sleep the night before. However, luckily, the test went extremely well. I consider myself one of the luckiest men alive to have been a part of man's greatest adventure and technological achievement.







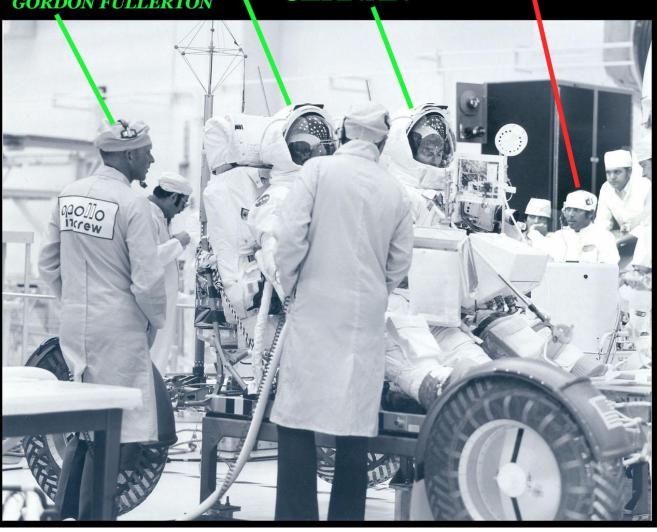
3

DAN

SCHMITT

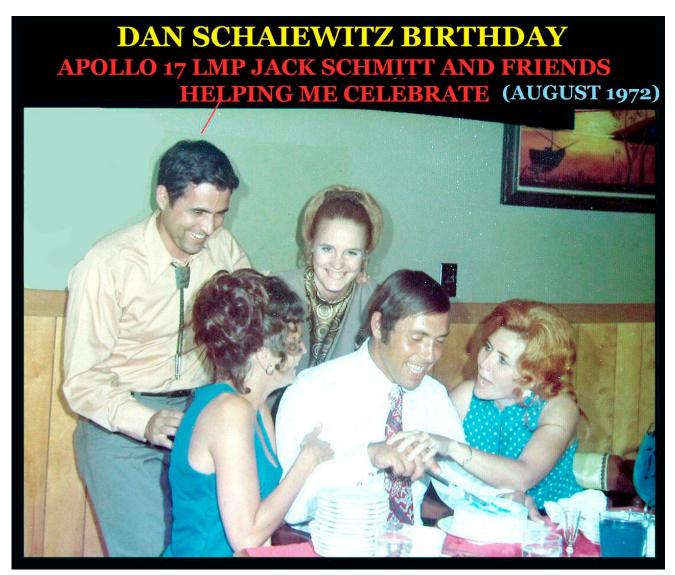
ASTRONAUT GORDON FULLERTON





CELEBRATING MY BIRTHDAY

Sorting through my Apollo memorabilia, I found this photo of Apollo 17 LMP Jack Schmitt and "friends" helping me celebrate my 29th Birthday.

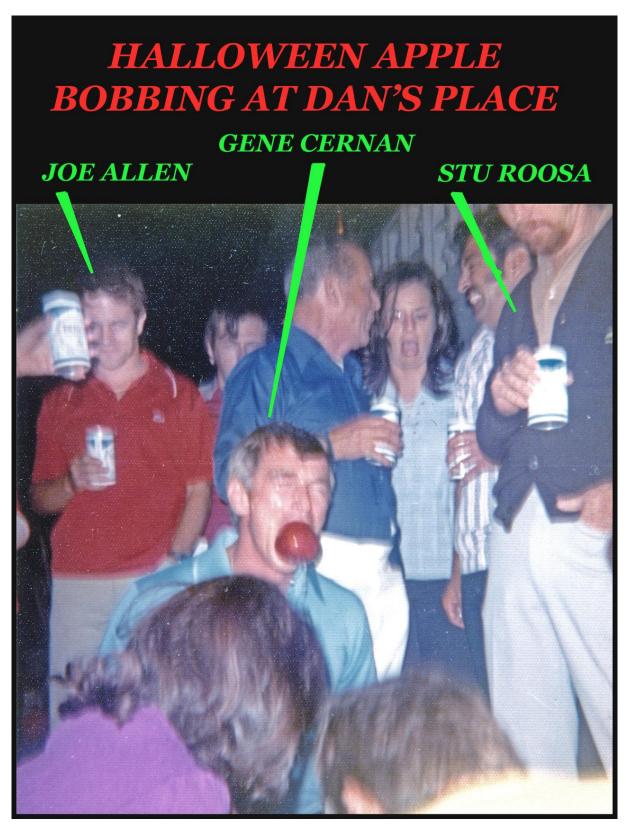


PARTIES WITH ASTRONAUTS AT MY APARTMENT IN COCOA BEACH

When historians look back at man's first adventure to another world they should be able to look back and come to the conclusion that the human beings we now call astronauts were not "robots" but men and women like you and I that had their own unique DNA, DNA that not only gave them the intelligence and motivation to pursue and accomplish their dreams, but also DNA that gave them each a "unique personality." Astronaut personalities varied from "fun loving" to "extremely serious and laser focused."

I hope that the photos below showing parties that I hosted at my apartment in Cocoa Beach convey to historians that astronauts were not just "robot Gods" but were human beings with attributes that make us all so unique and special!

Astronauts Cernan, Roosa and Allen bobbing for apples at my apartment in Cocoa Beach.



The below photo was taken at a party I hosted by the pool in front of my apartment. I was cooking beef ribs on the grill and astronaut Cernan offered to help. Great memories!

DAN SCHAIEWITZ COOKING RIBS WITH ASTRONAUT CERNAN'S MORAL SUPPORT (PARTY AT DAN'S APARTMENT IN COCOA BEACH)

PRE-LAUNCH PARTY AT DAN'S PAD SHEPARD GUENTER WENDT (PAD LEADER)



GENE CERNAN STUROOSA RON EVANS



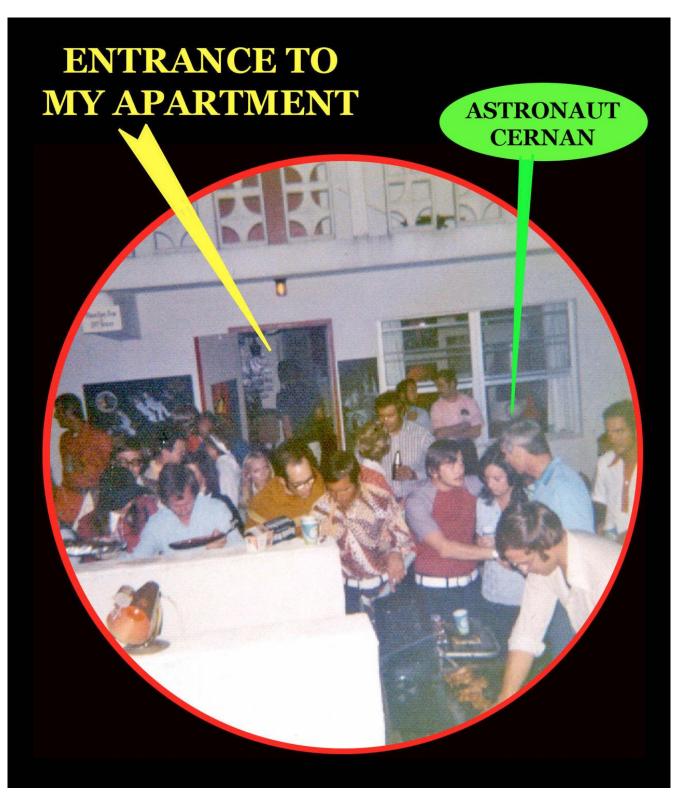
My apartment was located in the Morgan Manor apts. at 7801 Ridgewood Ave. Cape Canaveral, FL 32920.

I can't believe it's still there after 50 years. It has not changed much except for the pool area. There was no fence and the grass went to the edges of the pool. The photo I posted below reflects the same red doors that I remember.

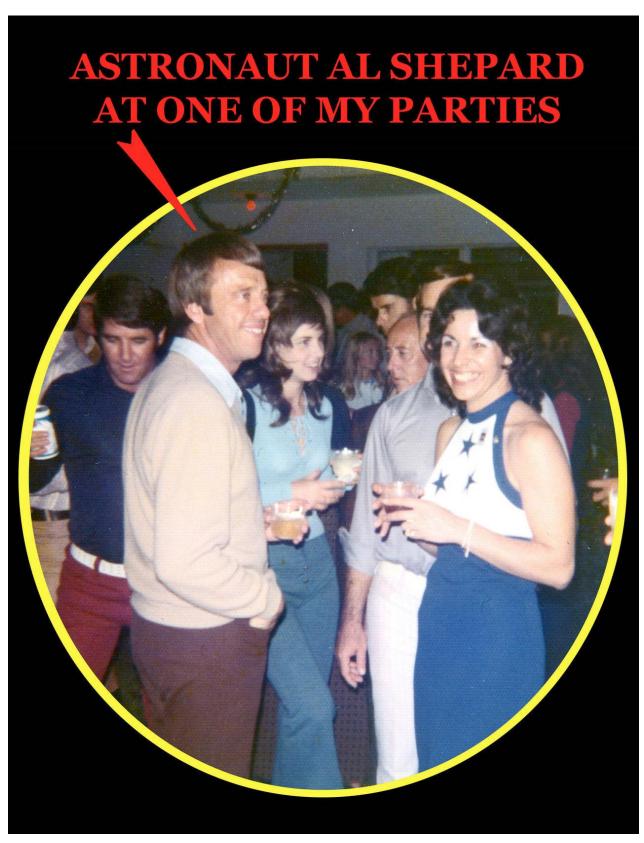


When I hosted parties at my Cape Canaveral apartment complex, the party goers had access to the inside of my apartment to use the bathroom, get a beverage from the fridge or just "hang out".

In the below photo, you can see the entrance to the apartment with the door open suggesting an "open invitation" to walk in.



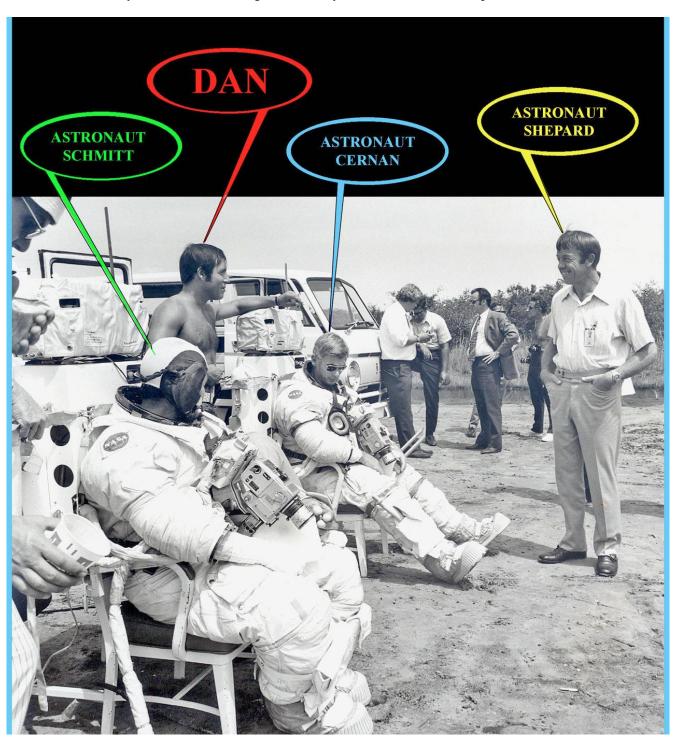
Below is a photo of Al Shepard smiling and having a great time. Al, to my surprise, at one of the parties asked me why I didn't have a photo of him in any of my rooms, i.e. not one in the kitchen, not one in the living room, and especially not one in the bedroom! I had no idea what he was thinking until he said (not an exact quote), how do expect to get girls into your bedroom without a picture of me on your wall!



WORKING WITH ASTRONAUTS SHEPARD, CERNAN AND SCHMITT

The following photo of astronaut Shepard and myself smiling is one of my favorites.

I remember Al looking at me and saying "Dan, that may be the dress code at the beach but it's not the dress code on the moon" (not his exact words but very close). After working with the astronauts and gaining their confidence, I felt very comfortable working shirtless as you can see in the below photo.

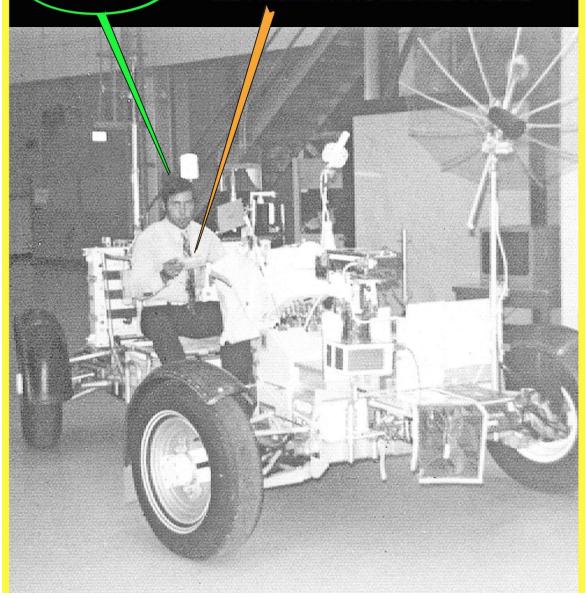


BEFORE I FELT "COMFORTABLE" ENOUGH AROUND THE ASTRONAUTS TO WORK "SHIRTLESS", I WORE A "SUIT AND TIE" IN THE HOT FLORIDA SUN!

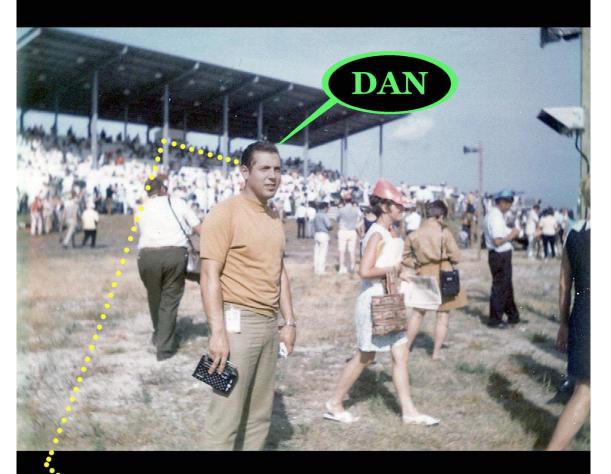


DRIVING THE TRAINING ROVER FROM INSIDE THE KSC CREW TRAINING BUILDING TO THE OUTSIDE SIMULATED LUNAR SURFACE STAGING AREA IN PREPARATION FOR A CREW TRAINING EVA EXERCISE





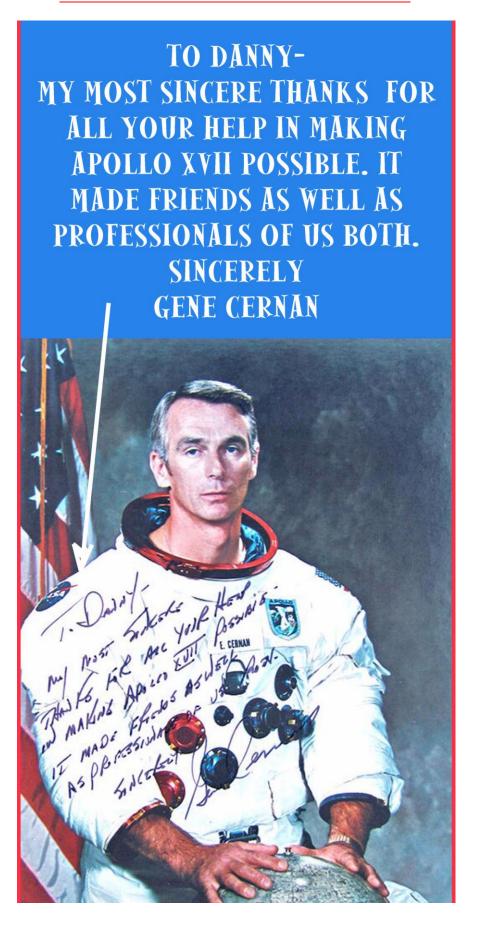
WHAT WERE MY THOUGHTS 50 YEARS AGO (JULY 16TH, 1969) AS I STOOD IN FRONT OF THE APOLLO 11 PAD 39 VIEWING STAND



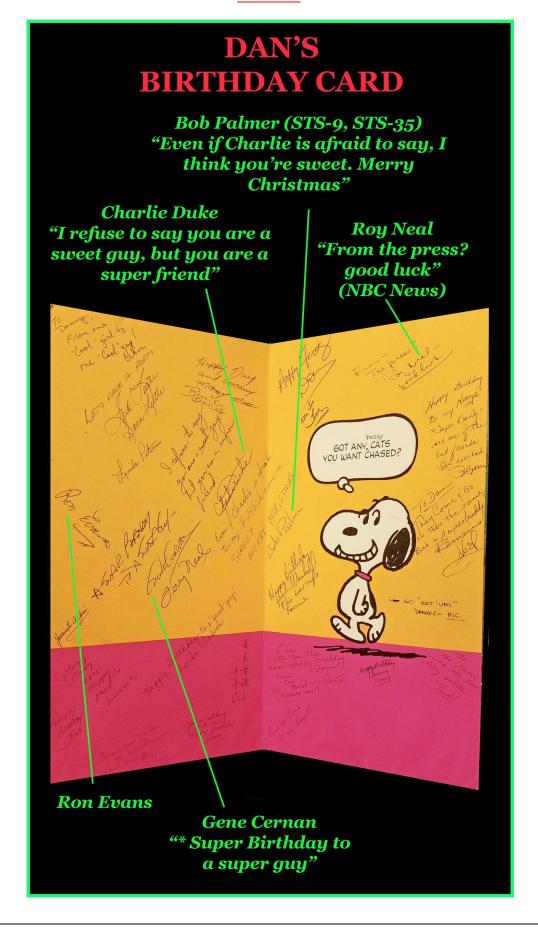
I CANNOT BELIEVE THAT JUST OVER 24
HOURS AGO I WAS INSIDE THE LUNAR
MODULE STOWING THE APOLLO 11
PLSS'S AND OPS'S AND BEING THE LAST
PERSON TO VERIFY THE CORRECT
POSITIONS OF THE PLSS CONTROLS!

I AM BOTH VERY EXCITED AND VERY NERVOUS!

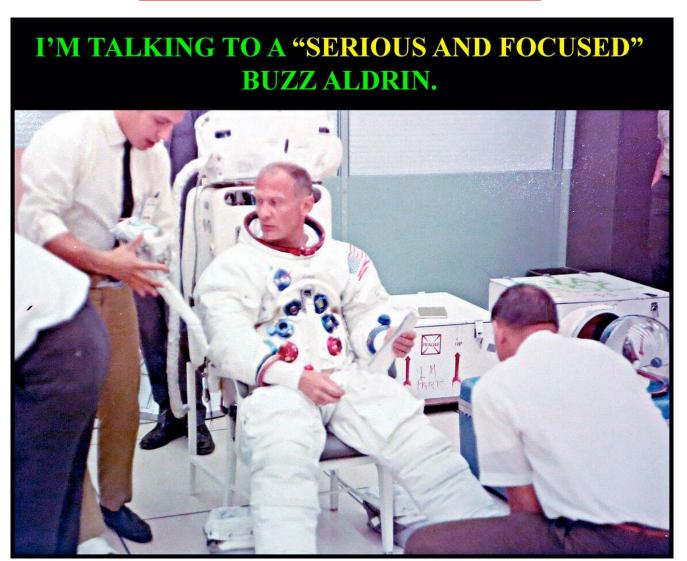
CHERISHED SENTIMENTS FROM THE LAST MAN TO WALK ON THE MOON, APOLLO 17 ASTRONAUT GENE CERNAN



CELEBRATING ANOTHER FANTASTIC BIRTHDAY AT THE CAPE WITH MANY FANTASTIC FRIENDS INCLUDING ASTRONAUTS GENE CERNAN, CHARLIE DUKE, RON EVANS AND BOB PALMER.



DISCUSSION WITH APOLLO 11 ASTRONAUT BUZZ ALDRIN



SPEAKING TO ELEMENTARY STUDENTS

One of my most rewarding assignments during my time at KSC was being invited to speak to elementary students. It was so inspiring watching student reactions to the suit and PLSS related hardware I was able to present to them. The interest and excitement represented to me a positive future for the U.S. space program.

Apparently, teachers asked their students to write a letter to me describing their experience. Following are three representative letters I received from the Cape View Elementary School in Cape Canaveral:

Cope View Ele,
Cape Canavell
May 27, 1950

Dear Mr. Schriewitz.
Thank your for coming to our some
We enjoyed having your. I especially like
the bask pask, underweak, scrop, emerency pack,
rosh-picker-uper. I hope you can come buch
with a suit next time.

Dinearly your.

David David David D.

Cope View Ele.

Cage Consideral Fla.

May 27, 1970

Dear Mr. Schaiewitz,

Thank-you very much

for coming to our class. cl

appreciate your getting the of
ternoon off to explain to us

things of space. It's interesting.

Your a big man with a

gigantic brain. I enjoyed

it.

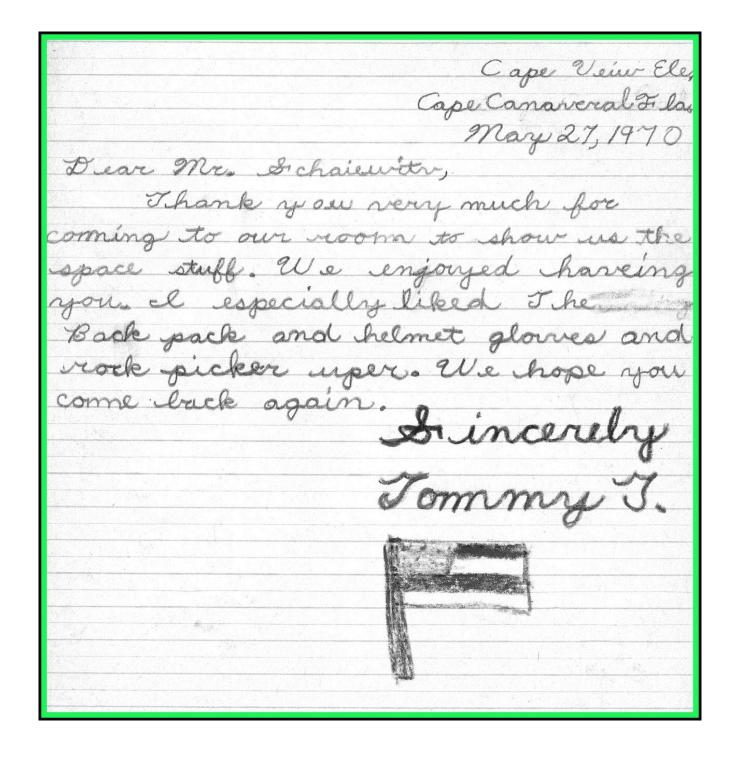
You new

P.S. Pleas come Friend,

again.

Monique

Merrow



DEMONSTRATING THE SPACE SUIT AT A PRATT & WHITNEY MANAGEMENT CLUB MEETING

On several occasions, I was invited to demonstrate the Apollo Space Suit at various venues. In December 1972, about a week after the December 7, 1972 liftoff of Apollo 17, I had the privilege of "walking into" a meeting of the Pratt & Whitney Management Club to the surprise of all but the club president (it was planned as a surprise).

Just think about that, how would you react to an unexpected visit by an Apollo astronaut. (At least that's what everyone believed until I removed my helmet!)

Guess who dropped in (by invitation) for dinner at the December meeting of the Management Club? It was Dan Schaiewitz of Hamilton Standard and he's shown demonstrating the spacesuit and portable life support system worn by U.S. astronauts as they explored the moon's surface.

DAN "INTERRUPTS" PRATT & WHITNEY MANAGEMENT **CLUB** MEETING

(DECEMBER, 1972)

DAN



Pratt & Whitney Aircraft

RESEAR

necticut,

H & DEVELOPMENT CENTER

ll Nar ed General Manager; Gorton Reti

on

& Whitney Aircraft last week named Edmund V. arshall as vice president and ger al manager of its Florida Research and Developm t Center. Marshall, who has been xecutive vice president of United Aircraft Corp ation's Hamilton Standard division i Vindsor Locks, Co

Cost Sa Top \$5 NCost consciousn

Jr., who had the The nuled do billion) miles on d U.S. air-

indust require Association equipm ment w now and - 1980 billion ficated air this tota States will traffic by 0.9 billion spent of period at the remain Most of niles), and % (to 19.7 into the During the et of sched-ular service 300 planes tractors, suppliers

ger traffic cargo trafthe carrier ut 15%? est increase craft in the during the

BIT -AIRCRAFT CH AND ENTER la. 33402

Office

apital that the schedestic air transportation will need to meet the
nts for new flight
t and ground equipamount to about \$27.7
current dollars. Of
\$7.4 billion will be
ring the 1971-1975 ring the 1971-1975 1 \$20.3 billion during nder of the decade. his money will flow nomy through con

lected to retire after

subcontractors

meeting of the Management Club? It was Dan Schaiewitz

as they explored

meeting will feature

a program on telecommunications

all 50 states.

plant for the Boeing 747, location of the accessory gearbox and oil reserve the Dash 20, the unit is pend-while ed beneath the fan c on the Dash 7 the up are located behind the case
The acoustically-trated long

The acoustically-based acoustic in the DC-10's icelles and the low noise feat as designed into the JT9D en ne result in the JT9D-20-pow ed DC-10-40 having the lower side line and takeoff noise lev is of any wide-based acinate. body airplane.

F. Grause, Donald G. Spurlock William J. Broad, Anthony G. Nefzger, Robert P. Maybury, James R. Cargill, Thomas C. Danforth.

Danforth.
Claude E. Manahan, Ivan A.
Littlefield, Leonard E. Booth,
Osborne A. Morris, William E.
Smith, James W. Chenowith,
William D. Earle, Elizabeth Y. Kloskin, James S. Maresco, Fer-rell L. Taliaferro, Hugh G. Griffin, Thomas Butterworth, Gene E. Eckenwiler, Sarah I.

Gene E. Eckenwiter, Sarah I.
Barbot, Louise B. Handling.
James P. Taylor, Charles L.
Malkemus, Joseph J. Paglialungo, David E. Smith, Russell
E. Caylor, Maximo R. De La
Noval, Robert E. Fell, Garold

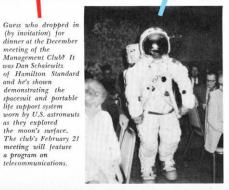
Noval, Robert E. Fell, Garold M. Van Helten, Franklyn S. Cambensy, Clement Elliott. Lucian R. Ramsey, Richard C. Herring, Robert J. Cum-mings, Frederick C. Stewart, Edmings, Frederick C. Stewart, Edward R. Skrob, Nicholas A.
D'Elia, Deaver W. Storer, Henry
F. Kus, Donald B. Anderson,
Walter J. Millett Jr., Leonard
B. Akin, Kenneth B. Badgley,
Edward R. Cannon, Anthony J.
Feathers, Clarence E. Thunander, Earl L. Poteat, Peter A.
Tellex Jr., William C. Missimer.

10 Years — Joseph A. Alonzi, William P. Mei, Edward M. Hogan, Victor R. Feltz, Raymond Brown, Wilmer G. Pierson. Hunter H. Taliaferro, Eric H. Arthur

Audaer, Mark ther J. Herde Ludwick, Rona Dillard R. O Wood, Marior T. Dwyer, Gail P. Engels, Barb Thomas W. Ja Neville, John M Caldwell, Fran

5 Years — I Alan V. DiPin thuis. Donald Millard Hoskir III, Charles T O. Whipple, Gerald D. St. B. McCarty, Harold C. Re G. Crill III,
Jr., Thomas
Carl J. Thelai
Donald C.
C. Blanchard,

Howard C. Larkin Jr., S Harry E. Gre Howard, Dani vin W. Deine Bryan J. Mack Barlow, Nade Richard C. V



THE ORBIT

NEWSPAPER CLIPPING TITLED "GETTING INSTRUCTIONS"

FRED IS NOT PAYING ATTENTION TO ME. HE APPEARS TO BE GIVING THE PHOTOGRAPHER The "EVIL EYE"!

FRED WAS NOT HAPPY WITH PRESS PHOTOGRAPHERS INTERRUPTING HIS EVA ON "PRESS DAY"!

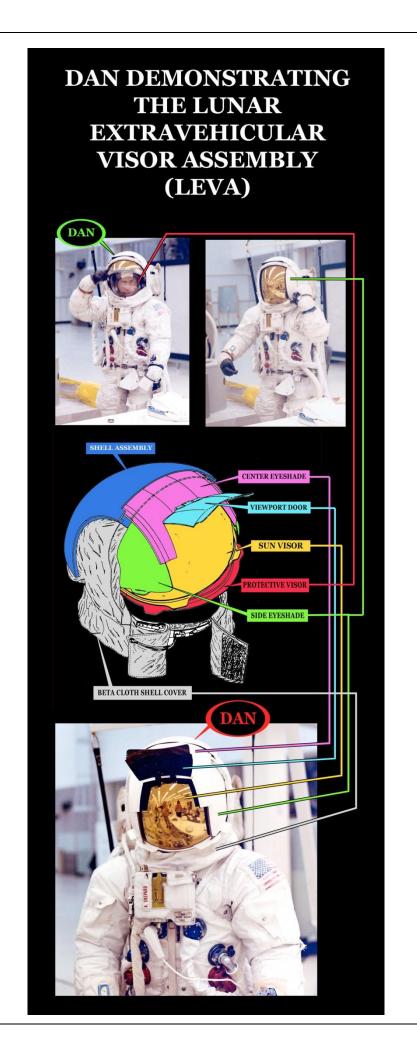
DAN

APOLLO 13 LMP FRED HAISE



Getting Instructions

Apollo 13 Lunar Module pilot Fred W. Haise Jr. seems to be getting directions as he has suit checked prior to practice Moon-walk at Kennedy Space Center. Scheduled for an April 11 blastoff, mission programmed to land in the Fra Mauro region to seek out exploration sites, obtain samples of the lunar surface and develop man's capability to work in lunar environment. (UPI)



PHOTOS OF ME EVALUATING PROCEDURES WEARING THE APOLLO SPACE SUIT

EVA SUIT DONNING PROCEDURE: DAN & TRAINING PARTNER

MOUNTING HELMET TO PGA NECK RING



EVA SUIT DONNING PROCEDURE:

GOING THROUGH LM TO CM
CONTINGENCY
TRANSFER USING THE OPS IN
THE WAIST MOUNTED
CONFIGURATION

DAN



EVA SUIT DONNING PROCEDURE:

MY LM PARTNER IS HELPING ME DON EVA LUNAR BOOTS WHILE SITTING ON A MOCKUP LM ENGINE COVER



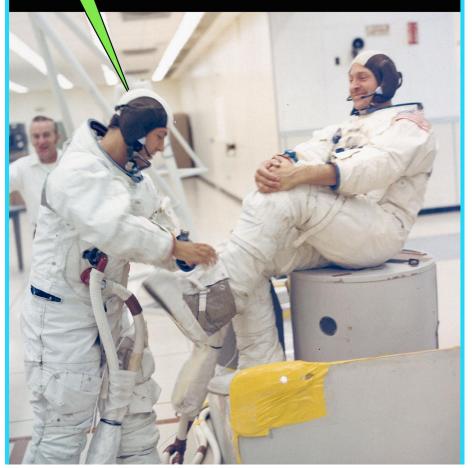


EVA SUIT DONNING PROCEDURE:

I'M HELPING MY LM PARTNER DON EVA LUNAR BOOTS.

IT APPEARS THAT WE ARE SMILING. COMIC RELIEF WAS WELCOME DURING VERY SERIOUS SCHEDULE DRIVEN GOALS.





APOLLO 17 MEDIA DAY

AS FAR AS WHY I WAS SITTING IN A CHAIR APPEARING TO BE ASLEEP! I MUST HAVE BEEN EXTREMELY EXHAUSTED AFTER BEING OUTSIDE "CHASING THE LUNAR ROVER AROUND" FOR 2.5 HOURS



WELL KNOWN MEDIA SPACE REPORTERS IN ATTENDENCE **INCLUDED:** DAN

ROYNEAL (NBC) & JULES BERGMAN (ABC)



ROY

NEAL BERGMAN (NBC) (ABC)

JULES ASTRONAUT ASTRONAUT APOLLO 17 CDR

CERNAN SCHMITT **APOLLO 17** LMP

LETTER FROM APOLLO 16 LMP CHARLIE DUKE

I received the below letter from Apollo 16 Astronaut Charlie Duke authenticating two charms that I gave the crew to be flown to the moon and back in the astronauts Personal Preference Kit" (PPK).

I was most impressed with Charlie's inspirational last sentence quote from Descartes:

There is nothing so far removed from us that we cannot reach it, or so hidden that we cannot discover it.

I WAS HONORED WHEN THE APOLLO 16 CREW CARRIED MY TWO STERLING SILVER CHARMS TO THE LUNAR SURFACE IN THEIR PERSONAL PREFERENCE KIT.

FOLLOWING IS A LETTER OF AUTHENTICATION FROM APOLLO 16 LMP CHARLES DUKE



Charles M. Duke, Jr.
Astronaut

February 19, 2000

Daniel Schaiewitz

Dear Daniel,

It was with great pleasure that I carried your two sterling charms to the moon with me aboard the Command Module "Casper". This letter will serve as the authentication that the two charms as pictured in the accompanying photograph were taken to the moon.

We lifted off from the Kennedy Space Center on April 16, 1972 and landed on the Moon on the Cayley Plains in the Descartes Highlands on April 20, 1972. We splashed down in the Pacific Ocean on April 27, 1972. When we returned to Houston, I returned the charms to you. Be a good caretaker. I hope that you keep the charms as a remembrance of the Apollo Era. May it serve as a symbol to remind future generations that, God willing, there is no goal or dream that is impossible to achieve or as Rene Descartes says "There is nothing so far removed from us that we cannot reach it, or so hidden that we cannot discover it."

Sincerely,

Charles M. Duke, Jr.

Brigadier General, USAF(Ret.)

Apollo 16 Astronaut

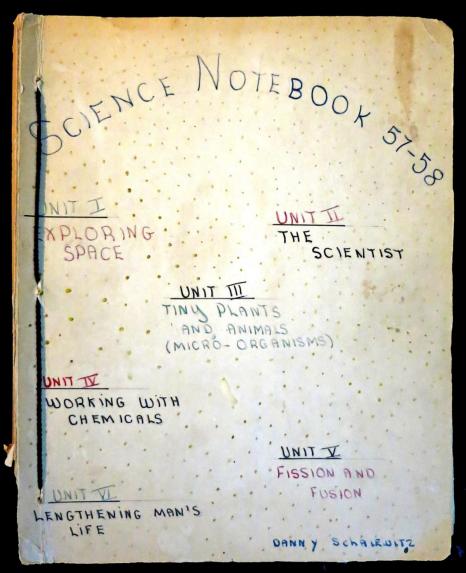
In September, 1957 I presented my ninth grade Science Notebook Project to my Science teacher Mr. Pratt about two weeks before the successful Sputnik launch on October 4, 1957. I was 14 years old at the time (Graphic #1 below). The very first section of the notebook was titled "Exploring Space" (Graphic #2). Included in this section were answers to questions, i.e. "Reasons For Space Travel", "What will we find in Space", "Problems of Space Travel" and other space travel related questions (Graphic #3). In Graphic #4, "Anatomy Of The First US Satellite", I drew my interpretation of the Vanguard 1 Satellite that would have been the first US orbital Satellite if it was not for a launch failure on December 6, 1957. When I wrote about the Vanguard, neither I nor anyone in the scientific community were aware that the Soviet Union was about to launch Sputnik. I cannot speak for the rest of the world at the time but I was totally devastated as I was and had been a "space fanatic" since the age of ten. My evolving interest in space travel began when I discovered and began religiously watching the TV series

"Captain Video and his Video Rangers" in 1953. When the "Flash Gordon" TV series came on air in October of 1954, I had two Space Related TV series to inspire my desire to someday be involved in Space Exploration.

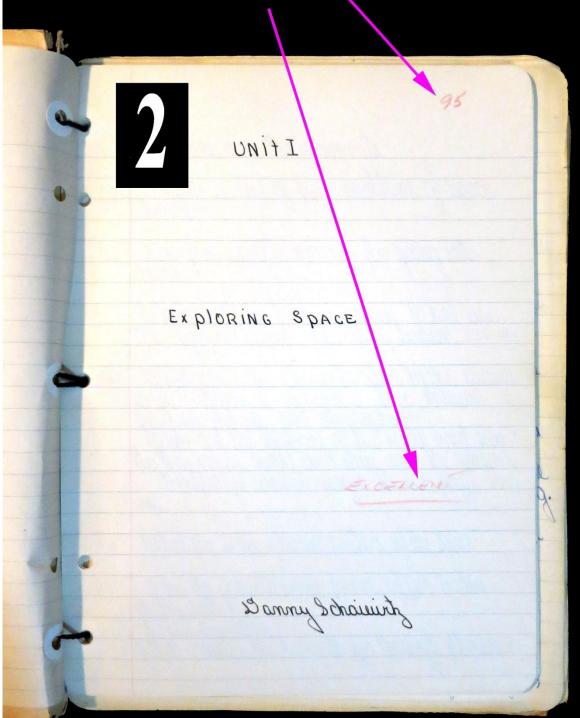
The devastating feeling after Sputnik turned into cautious optimism when the US successfully launched its first Satellite, Explorer 1 on January 31, 1958. From that point on my dream was kept alive by the incredible U.S.

space program successes and the rest is history!

DAN'S
SCIENCE NOTEBOOK
INCLUDING
"EXPLORING SPACE"
WRITTEN SEPTEMBER
1957
ABOUT TWO WEEKS
BEFORE SPUTNIK
LAUNCH OCT. 4TH, 1957







IN DAN'S OWN WORDS AND HAND WRITING

REASONS FOR SPACE
TRAVEL.
WHAT WILL WE FIND IN
SPACE.
PROBLEMS OF SPACE
TRAVEL

3

ML

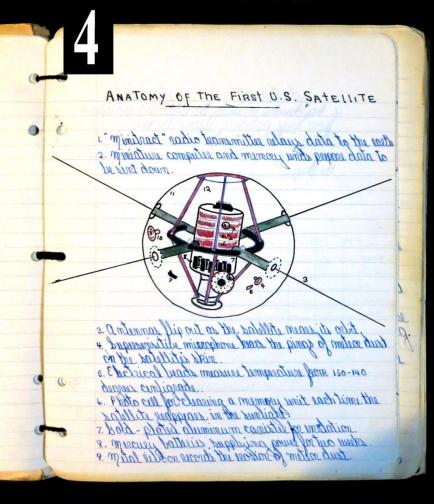
- . Why should me band into space.
- 2. W hat shall me find in space.
- 3. What are some can they be salled

wage atni pnibuart raf warm A

- spatnaula justilim a mias at .
- 2. To signe muy sources of usanium and
- . will at shirter no tenally suttems brief at . E
- 4. To study the worth.
- Leveltrice strategy and planets without
- stow suitsoaibar tisagel at. 1

(sund)

ANATOMY OF THE FIRST US SATELLITE DAN'S DESCRIPTION AND DRAWING OF THE VANGUARD 1 THAT WOULD HAVE BEEN THE FIRST US SATELLITE IF IT WAS NOT FOR LAUNCH FAILURE ON DEC. 6th, 1957

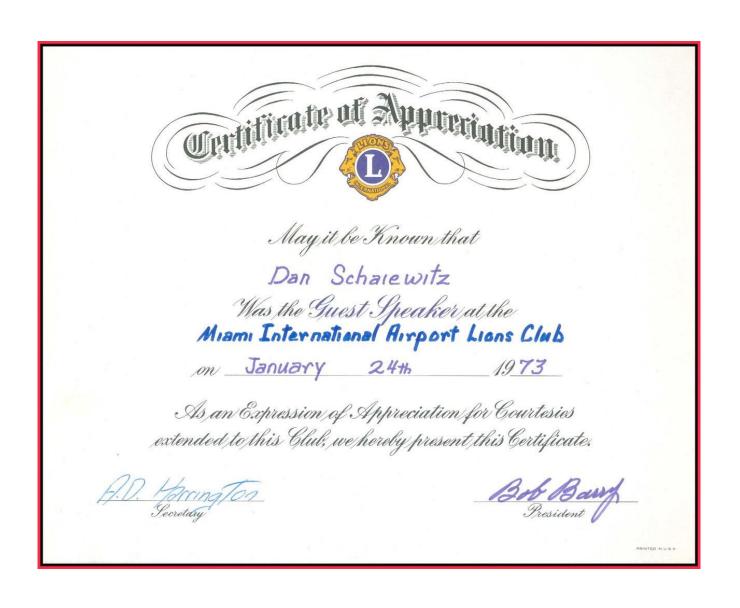


EXPLORER 1 LAUNCHED JAN. 31TH, 1958 WAS THE FIRST SUCCESSFUL US SATELLITE

LIONS CLUB LETTER OF APPRECIATION

I thoroughly enjoyed lecturing to groups about the Apollo program, specifically the Apollo Suit, PLSS and OPS.

One such lecture was at the Miami Lions Club. I will remember this occasion for more than one reason as I illuminate in the below photo.



I WILL NEVER FORGET THIS PHOTO. WHY?

BECAUSE I WAS NOT WEARING A UTCA (URINE TRANSFER COLLECTION ASSEMBLY)

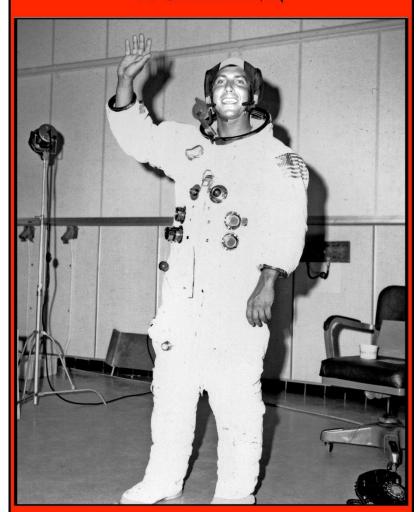
"MAN DID I HAVE TO GO"
UNDERSTANDABLY SO AFTER LECTURING
FOR AN HOUR + AND THEN AGREEING TO
TAKE PHOTOS WITH THE LIONS CLUB
ATTENDEES AND THEIR WIVES.





MY 15 MINUTES OF FAME!

WAVING TO A GROUP OF VIP'S TOURING THE CREW TRAINING BUILDING



IT'S CONCEIVABLE THAT SOME MAY HAVE THOUGHT THEY WERE WAVING TO AN ASTRONAUT.

PRE-MISSION TEST-NASA's Jerry Ellzey, center, and Hamilton Standard's Daniel Schaiewitz check out life support backpacks at Kennedy Space Center in preparation for Apollo II moon-landing. At left are employees Terrence Xavier, a technician, and, partly hidden from camera, KFC operations manager Edgar H. Brisson.



PRE-MISSION TEST—NASA's Jerry Elizey, center, and Hamilton Standard's Daniel Schalewitz check out life support backpacks at Kennedy Space Center in preparation for Apollo II moon-landing. At left are employees Terrence Xavier, a technican, and, partly hidden from camera, KFC opera-tions manager Edgar H. Brisson.

Man's First Lunar Landing Set

When astronaut Neil A. Armstrong steps from the Apollo 11 Lunar Module at or about 12:10 a.m. July 21, he will fulfill an age-old dream of man and will establish, in that moment, a milestone which will stand forever in the gallery of mankind's mightiest achievements.

that homent, a finistence which will stand forever in the gancy of maintings migniest achievements.

And as Armstrong becomes the first human being to set foot on the moon, Hamilton Standard, in a very real sense, will be there with him — a vital participant in this historic event.

No less than nine different the orbiting Command Module to the moon's craggy surface.

Life Support Systems
Division - built portable life support systems—worm as backromatic forever in the ganciery of maintings mignies.

Life Support Systems
Division - built portable life support systems—worm as backromatic forever in the ganciery of maintings mignies.

Life Support Systems
Division - built portable life support systems—worm as backromatic color the guidance and telemetry equipment in the Saturn V launch vehicle's instrument. the first human being to set foot on the moon, Hamilton Standard, in a very real sense, will be there

No less than nine different types of equipment developed and built by the division will play a part in the moon-landing

A Hamilton Standard environmental control system will provide Armstrong and fellowastronaut Edwin E. Aldrin with
grally into the mission's success
grally into the mission's success
grally into the mission's success
grally into the mission's necessity of the standard or the standa in which they will descend from

packs and connected to the astro-nauts' space suits by umbilicals — will provide them with the essentials of survival when they leave the LM's snug cabin and step onto the bleak expanse of the proof; surface

ment unit;
• LM general purpose inverters, which change direct current into the alternating current that powers a variety of LM electronic equipment;
• S-II inverters

 S-II inverters, five power supplies that operate engine and grally into the mission's success

from launch, through moonlanding to splashdown—include:

• the LM abort sensor assem
(Continued on Page 2)





June 1969

Bloodmobile to Visit July 1-3

The Red Cross Bloodmobile will visit Hamilton Standard July 1

The Red Cross Bloodmobile will visit Hamilton standard July 1 through 3 to help meet the critical need for blood during the Independence Day holiday weekend.

Nevin F. Decker, assistant to the division president and chairman of the blood program, said the need for blood is greater than ever. "Hamilton Standard employees have always turned out to help the Red Cross meet its needs," he said.

Decker urged employees who have not previously donated blood to sign up for the July visit. "This will help guarantee free blood to the July visit."

Boeing Tests Boron Flap

Flight testing of a boron comringat testing of a boron composite wing foreflap on a Boeing 707 is being conducted by The Boeing Company in Scattle, Wash, to determine the inservice reliability of the new high strength, low weight, structural materials.

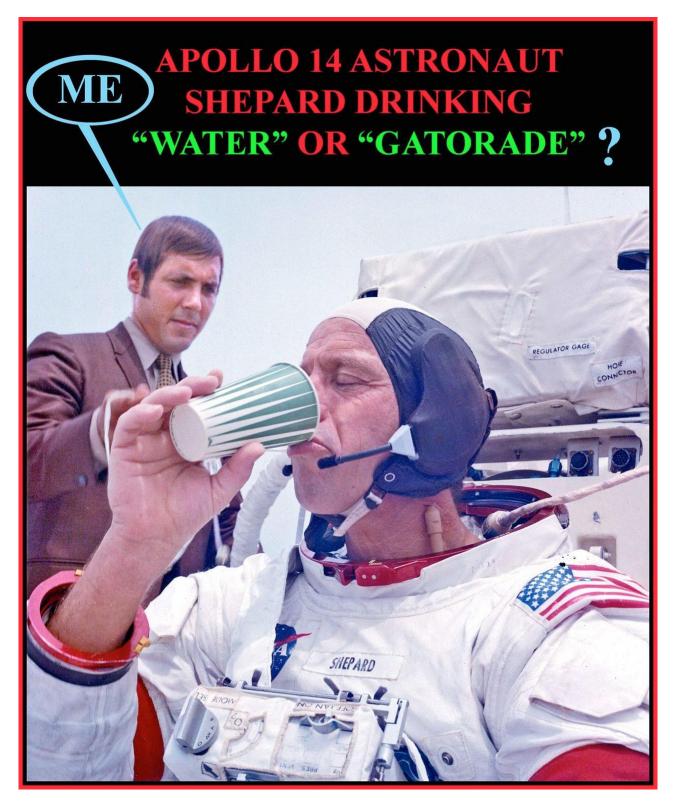
Message To Employees:

Cost-Cuts Mean More Business

Hamilton Standard, like many other aerospace companies, is currently going through a retrenchment period. The workforce has been reduced by six per cent. A series of cost savings and cost elimination steps have been taken, and others are under way. The Hamilton Standard this month invited Division President Charles T. Roelke to give his views of what problems - and opportunities - confront the division in the months ahead.



THE STORY OF ASTRONAUT SHEPARD AND GATORADE



THE DATE: July 16, 1970

THE PLACE: Apollo EVA Simulated Lunar Surface Training "Sand Pile" outside the KSC Crew Training Building.

THE PHOTO SUBJECT: Apollo 14 Astronaut Alan Shepard

THE SITUATION: Astronaut Shepard drinking "water" or "Gatorade" during an EVA crew training 15 minute break.

BACKGROUND AND STORY: Gatorade was formulated by University of Florida researchers in 1965 to help the University football team increase their energy levels during the course of a football game.

Gatorade was and still is a precisely balanced carbohydrate, electrolyte beverage that replaces the fluids and electrolytes lost through exercise and sweating.

Gatorade became the "go to" drink for athletes and others that needed to regain stamina during arduous activities like, of course, the arduous activity associated with a two to three hour EVA training exercise wearing an earth weight EMU (Space Suit and Back Pack) under the hot Florida sun.

Gatorade became available to the mass market during the same Apollo era time frame, 1968-1972. Some, not all of our Apollo astronauts from Apollo 12 on realized the possible benefits of Gatorade. They tried it and subsequently "insisted" that Gatorade on ice was available during EVA training sessions.

During one particular EVA session on the subject July 16, 1970 day, "water" was poured into the cups of both astronauts Shepard and Mitchell for their well deserved consumption.

Are you ready for the "fun"! I knew astronaut Shepard to be consistently "calm, cool, and collected" with a great sense of humor. It was extremely unusual to witness moments of "displeasure" from "happy go-lucky" Al.

When Al realized he was drinking water instead of his anticipated Gatorade, all "hell broke loose!" Al, without mincing words, expressed his "displeasure" when he was told there was no Gatorade available. He wanted to know whose responsibility it was to make sure Gatorade was available for all EVA training sessions. When one of the suit techs admitted it was his responsibility, Al gave the suit tech a "laser directed" look.

At that precise moment, the suit tech dropped everything and started running toward the Crew Training Building. No one came to any conclusions for the suit techs "quick accelerated rabbit like exit" from the "sand pile."

Are you ready for the conclusion! Just before the end of the EVA exercise we saw a human "rocket powered" suit tech racing toward our EVA location carrying two bottles of Gatorade. By that time Shepard was sitting on his EVA chair with his helmet removed and was ready for his beverage. He knew what to expect as he was witness to the "rocket powered" suit tech's delivery.

He began drinking his Gatorade, and with the previously described "laser focused" displeasured look, addressed the suit tech with, if I remember Al's exact words, "you are one lucky individual, you redeemed yourself"!

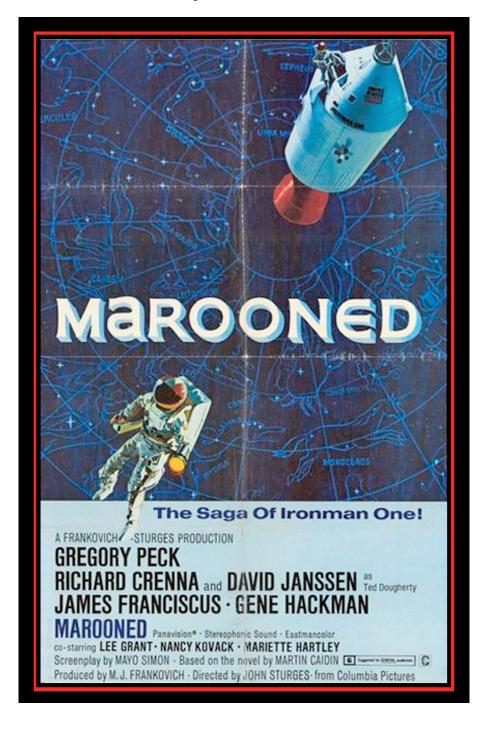
When the tech turned away everyone including Al broke out into continuous laughter. Al finally called the tech over and gave him the accolades he deserved for his redemption effort!

MOVIE MAROONED OPENING DAY PREVIEW

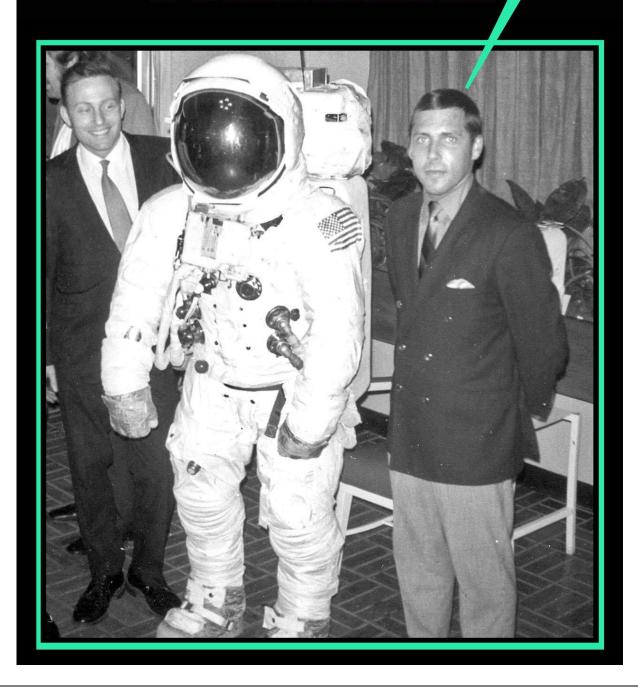
In November of 1969, NASA CSD (Crew Systems Division) was asked if they would be willing to provide an Apollo suited subject to participate in a Brevard County movie theater premiere of the movie "Marooned." I do not remember the name of the theater, however, I seem to recall that it might have been the first Florida AMC theatre that opened in the fall of 1969.

Myself and three other contractor representatives were there, not only to monitor the status of our suited subject (one of my techs that keep hinting at wanting to suit up), but also to answer questions from folks as they entered the theater (we were located in the lobby).

Guess what question topped the list? You guessed it, i.e. "How did the astronauts go to the bathroom"? Of course, that question was from the mouths of inquisitive future astronauts!



"MAROONED" BREVARD COUNTY PREMIERE



DAN'S CAPE CANAVERAL "SPACE FANATIC" APARTMENT

(APOLLO RELATED PHOTOS IN EVERY ROOM!)

KITCHEN





LIVING ROOM





BED ROOM



"WHAT THE MIND OF MAN CAN CONCEIVE, THE MIND OF MAN CAN ACHIEVE"

WAS AND STILL IS MY "LIFE MOTIVATOR"

AFTER ACCOMPLISHING
MANKIND'S DREAM OF
LANDING MEN ON THE MOON









WHAT THE MIND
OF MAN CAN
CONCEIVE, THE
MIND OF MAN
CAN ACHIEVE.











FLIGHT CREW HEALTH STABILIZATION PROGRAM

There are times when I look back and realize that I was a critical link to making the EVA Astronaut Crew Training effort a success.

One such time was being on a list of only 43 individuals that were permitted to have personal contact with prime and backup crew members 21 days before flight during implementation of the "Flight Crew Health Stabilization Program." This program was implemented to help prevent astronauts from becoming ill before their missions.

Stated in the Flight Crew Health Stabilization document, "Flight and Backup crews contact with KSC personnel will be 'limited to absolute minimum Mission Essential Personnel' called Primary Contacts."

Imagine, at the height of the Apollo program, there were approximately 400,000 individuals involved in the program either directly or indirectly. To think that I was one of 43 on a list of "absolute minimum mission essential personnel was and still is "mind-boggling!"

APOLLO "FLIGHT CREW HEALTH STABILIZATION PROGRAM" "MISSION ESSENTIAL PERSONNEL"

ONLY 43 INDIVIDUALS
(INCLUDING MYSELF) WERE
PERMITTED PERSONAL
CONTACT WITH PRIME AND
BACKUP CREWS 21 DAYS
BEFORE FLIGHT

DAN

"FLIGHT CREW HEALTH STABILIZATION PROGRAM"

Apollo 14 Primary Contacts at KSC

NR-LO

(Contact - Neil Mullins, Ex. 7868)

J. H. Creagle Bond Room QC R. J. Lang Bond Room QC

Wendt Pad Leader Briant Pad Leader Tanner Pad Leader

Broadwell Pad. Tech.
J. A. Butler Pad Tech.
M. Ahrens Pad Tech.
C. Gardner Pad Tech.
J. Grissinger Pad Tech.
R. A. Williams Pad Tech.

NASA-KSC

(Contact - Euell Hilyer, Ex. 3885)

Hammond CSM Bond Room QC
Grammel CSM Bond Room QC

Webb LM Bond Room QC Chitwood LM Bond Room QC

Suit QC

Ramsey

P. Hooper
G. Conklin
LM S/C NASA QC
LM S/C NASA QC
LM S/C NASA QC

O. D. Harr

J. A. Delillo

E. L. Williams

CSM S/C NASA QC

CSM S/C NASA QC

BIOMEDICAL - KSC

G. G. Meogling Biomed. Engr.

J. P. Wise Biomed. Tech.

H. F. Heidler Biomed Tech

H. F. Heidler Biomed. Tech. R. F. Hart Biomed. Tech.

GAC

(Contact - R. Sands, Ex. 7298)

R. Bowling Bond Room QC R. Caldwell Bond Room QC

G. Walden Pad Leader V. Durby Pad Leader C. Moser Pad Leader

G. Dowling GAC Pilot K. Lindsley GAC Pilot

HAMILTON STANDARD (PLSS)

(Contact - Mr. Brisson, Ex. 7323)

R. E. Arnold PLSS Engr.
D. R. Bennett PLSS Engr.

INTERNATIONAL LATEX CORP.

(Contact-Tom Parish, Ex. 7431)

Bowman Suit Engr.
McCarthy Suit Engr.
McNair Suit Tech. B/U
Kayes Suit Qal.

TWA FIREMAN

(Contact - Norris Gray, Ex. 3795)

Larry Ford Suit Room O2 Flows

CAMERAMAN

(Contact - Dean Cockerham, Ex. 6002)

M. E. Thomas Still Photo
L. Summers Motion Pictures

F-90 days Medical History Forms due November 2nd. Complete all Physical Examination by F-45, Dec. 17th. Conduct Clinical Laboratory Tests F-45 (Dec. 17) to F-30 (Jan. 1) F-21 Quarantine begins on January 10th.

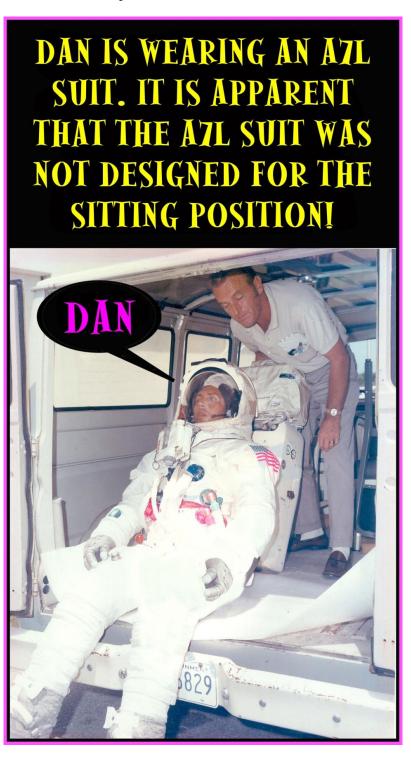
WEARING AND WORKING IN THE APOLLO SPACE SUIT

I was asked many times how I remember my experience working and moving in the bulky Apollo Space Suit.

My responsibilities when "suited up" did not include mobility evaluations. I was strictly focused on EVA procedures and PLSS performance. I can say that required procedures while wearing the suit were consistent with suit design mobility.

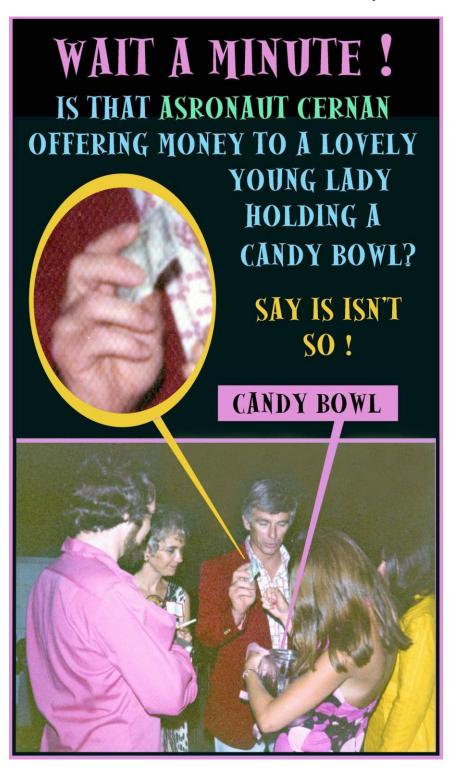
In the photo below, I was wearing an A7L suit. The next generation A7LB suit was designed with an added waist joint to allow the astronauts to sit relatively comfortably in the Lunar Rover seats.

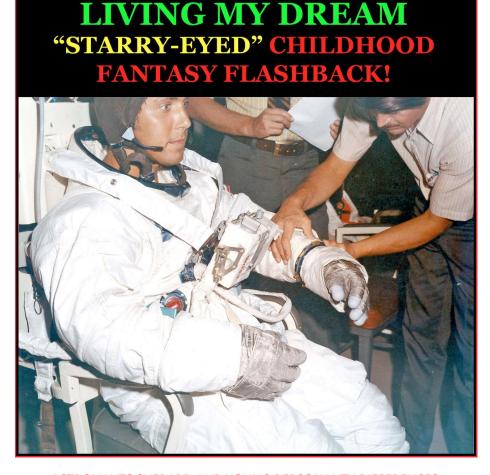
If I had been wearing an A7LB suit in the photo, I would not have looked like a "beach ball" ready to roll over!



WHY IS ASTRONAUT CERNAN ABOUT TO DROP MONEY INTO A CANDY BOWL AT MY APOLLO 17 PRE-LAUNCH PARTY?

When I planned the pre-launch party, I wanted to provide a subliminal morale boost for mission success. What better way to accomplish my objective than to collect money for an Apollo 17 Splashdown party assuring a positive outlook for the safe return of our astronauts and success of all mission objectives.





ASTRONAUTS SHEPARD AND YOUNG PERSONALITY DIFFERENCES

I was extremely fortunate to have had the opportunity to work with the Apollo Astronauts. A question that I've addressed on numerous occasions is, "were there significant astronaut personality differences and, if so, did the differences affect the astronauts competency to carry out mission objectives."

My answer was and still is, "YES, there were significant personality differences and NO, their differences did not affect mission objectives."

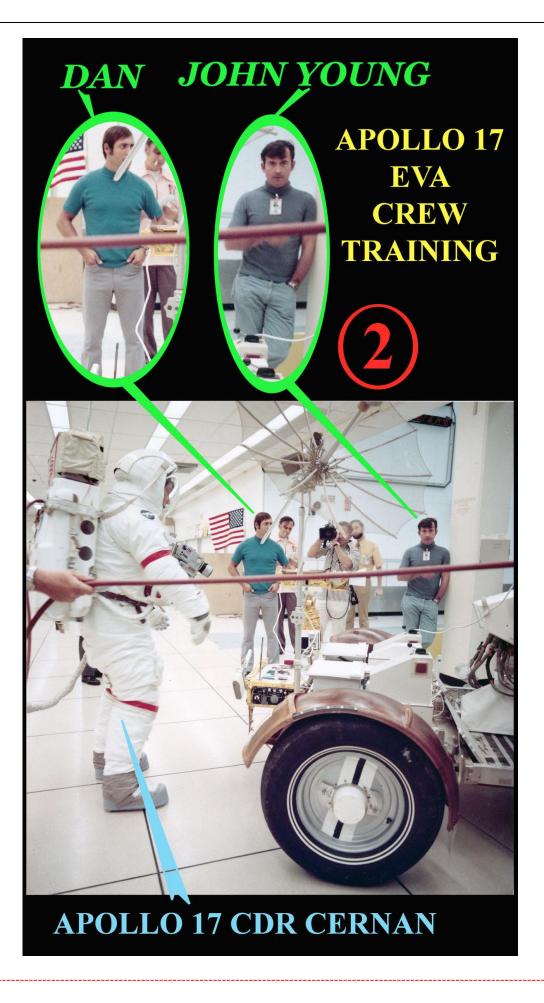
Following is one of my "first hand" experiences dealing with astronaut personality differences, specifically, Apollo 14 CDR Alan Shepard and Apollo 16 CDR John Young. As you read my observations, keep in mind that both astronauts carried out mission objectives with personality differences having no impact.

Alan Shepard was gregarious with a good sense of humor. On the other hand, John Young, if he was outgoing with a sense of humor, did not exhibit those personality traits when I worked with him.

In Photo #1 below, I'm standing next to Astronaut Shepard which was usually the case when he unexpectedly paid a visit to the Crew Training Building to witness Crew Training EVA activities. Instead of the intuitive question one would think Al would ask, i.e. "How is training going Dan," he would ask one or both of the following questions, "Will you be at the Hilton this Saturday night?" or "When is your next party?" and continuing with a few "dry sense of humor digs." It was also apparent to me that he was simultaneously watching and concentrating on the EVA.

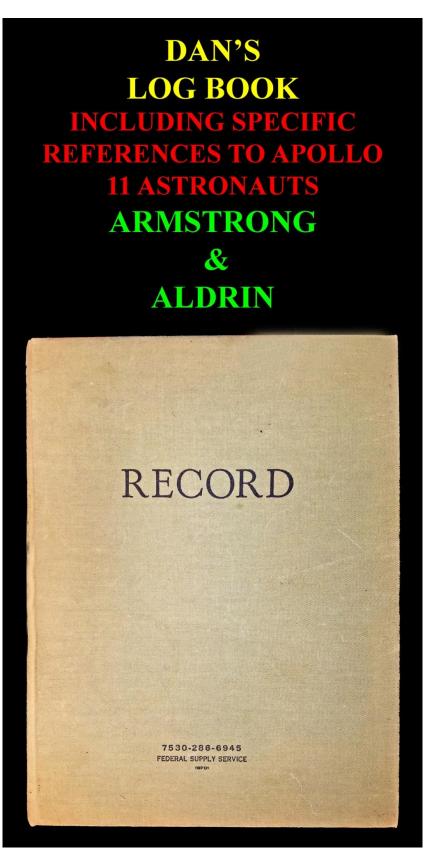
On the other hand, as you can see in Photo #2, Astronaut Young is maintaining his distance from me and appears to be focused on nothing else but Crew Training activities. John most always appeared to be serious, with little or no "small talk."





REFERENCES TO APOLLO 11 ASTRONAUTS ARMSTRONG AND ALDRIN IN MY LOG BOOKS

When reviewing my Apollo log books from Kennedy Space Center, I found a few of the many specific references to Apollo 11 astronauts Armstrong and Aldrin. Any and all references to Armstrong and Aldrin bring back incredible memories.



LOG BOOK PAGE 73 JUNE 10,1969

ARRANGED TO HAVE

ARMSTRONG & ALDRIN

FIT CHECK FLIGHT RCUS
AFTER MODIFICATIONS

	73
	51 oriound safters comments on the -PIA;
20	incorporated Changes and resulmented downwant
b	la signiture.
1	of the short of uninemporated changes for LM-5 handward and gave list to manhall
1	Hatter.
m	6/9/69 1. Whate TPS to prepare and ship hardware
1/10	ON C2F2 (LH-5) 2 What Upate TPS to put SEB # on PLSS'S.
ise	3. Coursed preparation for cope which
1	injudid Rev malifications
and od	2. Rowenied EUA prirodures for manned testeria
	shops in mot with John Consisten in our lab to
	and make a Mar a granged to have
1	and makups. Tolso granged to have and trong and aldren fet check men les
w	high was judigad brout all man managed
clar	2 Worked with Sae Johnson for 3 hours on
3	2 Worked with Sae Johnson for 3 hours on design of 1/2 @ nig to lit cheek piess on Outrondulal We manhed I'it the "PLUS"
action	Ostronautal We marked Vit the PLUS (PLSS Sumas Weight Simulator) This must (PLSS Sumas Weight Simulator) It is a constrained
0	the campbete by Shire
d	toact?



SUPPORTED A POST EVA CREW
TRAINING EXERCISE
WITH

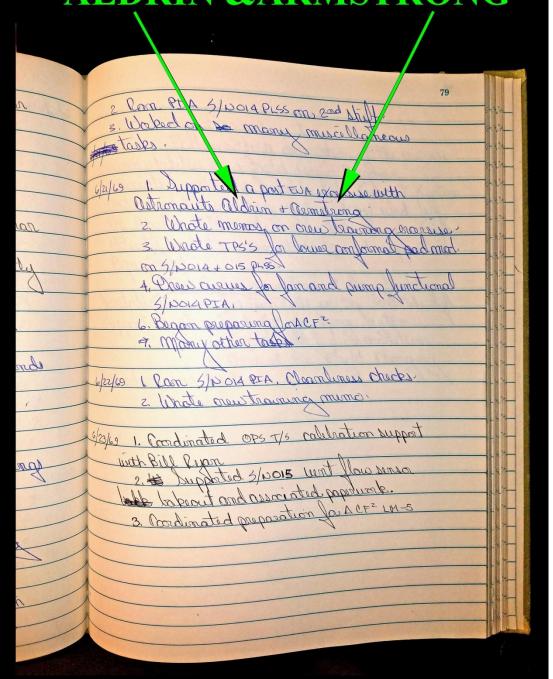
HAISE & LOVELL

IN THE MORNING AND THEN SUPPORTED A PRE EVA EXERCISE WITH

ALDRIN & ARMSTRONG \ IN THE AFTERNOON

\	
78	
Santynal brokag and	the Feedura in ?
shut of and rotus talue.	upper stage
a Expondable water Went Fit	tting Flow
e uduator lesurior Qua	ntity check. 6/2/4
Mark Mark Mark Mark Mark Mark Mark Mark	
Supported a LH-5 Orani Supported a LH-5 Orani	raining duran
2. Junt time with fact	about man and los off.
11 pool spare pour Aces in	Md witus Alle
3. lon Rumany of subject	im bakara
ONSLOPER PIA.	
Continued calibration	of PEA Test stand
2. Drepated for two crews Miceraux to the held tomorrow	1 1 1 1 1
3. Dupoit and DR'S on	ow on lat plat
4 LUIT 5/NOIA PTA on co	nd a - 11
mot significant shough to m	20 sandus thing
Excellenty wheat to we	autrail au
6/2/9/9/	
Starting by the movement of the and	now training
morning and the wha	doubl in the
The afferman and support and	and a project
Aranau.	

LOG BOOK PAGE 79 JUNE 21, 1969 SUPPORTED A POST EVA EXERCISE WITH ASTRONAUTS ALDRIN & ARMSTRONG



LOG BOOK PAGE 72 JUNE 6, 1969

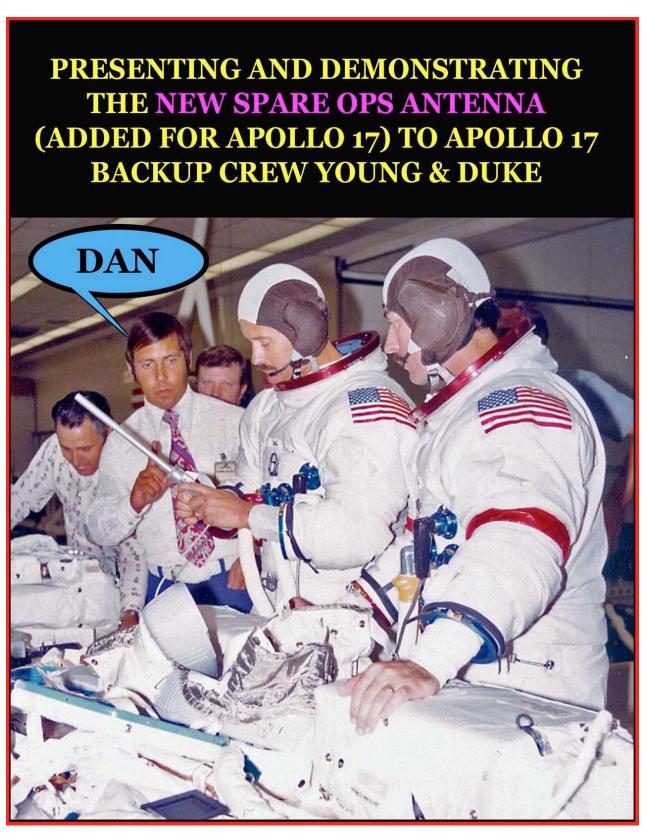
I WAS INFORMED THAT THE FLIGHT PLSS HARNESSES FOR

ALDRIN & ARMSTRONG

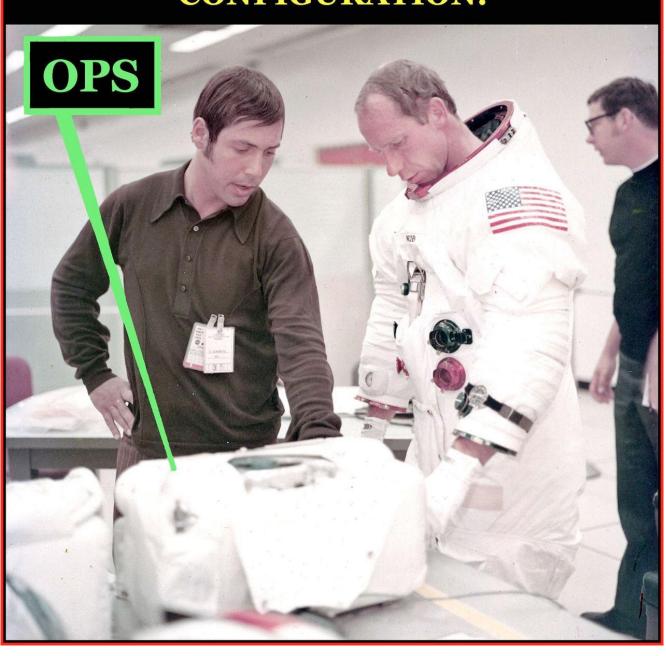
WERE COMPLETE AND VOULD BE AT THE CAPE IN TIME FOR C2F2

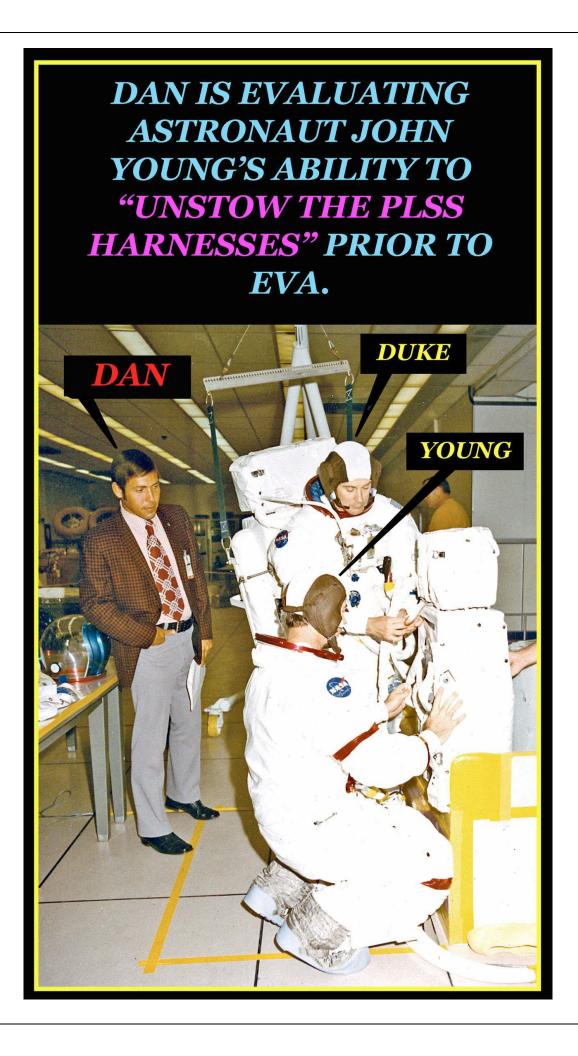
72	
c. Called El Trans concerning St or 800 tague test. Le promished to boold it town	
tague test of promished to sould it town	
the look	
7 Morm Balis in proced me that the flight	
PLSS harresses for aldring and assistions	
have complete and would at the cape in	-
Tente Voi Cet	-
_ B. Condinalist with some Chase and How	
- Dalus to determine configuration of	
As after gas trap and 3 Per made.	
at the Crow training building The run us	
The creuman invalued were Food House and	
- More tought the course of cold the	
well and the own want a success.	
for promote and sewing of	
mame tage on thermal garments	
2. Repaired & Rev markups to support oran	-
3. Revined to 1	
3. Reviewed feedwater callection procedure for	
14-5. Found that the apollo 11 tox	
tag tempor reduction collection	
Towns rull the little	
the Pro new place of a mile on the	
As Pro respende do not have to pounded	-

AS I DOCUMENT MY APOLLO RELATED EXPERIENCES, I WANT YOU TO KNOW THAT I
AM AS PASSIONATE NOW ABOUT MY EXPERIENCE(S) AS I WAS THEN. THE ONLY
DIFFERENCE IS THAT I WAS THEN A 24 YEAR OLD GIVEN THE OPPORTUNITY TO LIVE
A DREAM AND I'M NOW A 76 YEAR OLD RELIVING THE DREAM THROUGH VIVID
MEMORIES AND LOVING IT! FOLLOWING ARE SOME RANDOM PHOTOS OF ME
WORKING WITH APOLLO ASTRONAUTS.

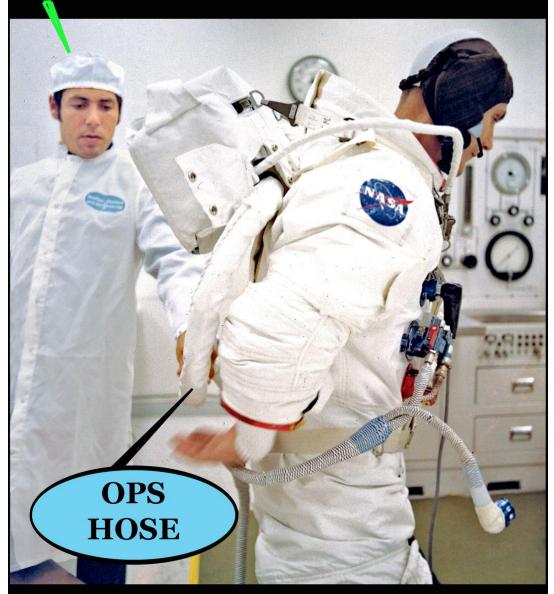


DAN REVIEWING LM TO CM CONTINGENCY TRANSFER PROCEDURES WITH APOLLO 15 CMP AL WORDEN USING THE OPS IN THE WAIST MOUNTED CONFIGURATION.





DAN REVIEWING SIM BAY CASSETTE RETRIEVAL EVA PROCEDURES WITH APOLLO 16 CMP KEN MATTINGLY USING THE "FLIGHT" OPS IN THE HELMET MOUNTED CONFIGURATION

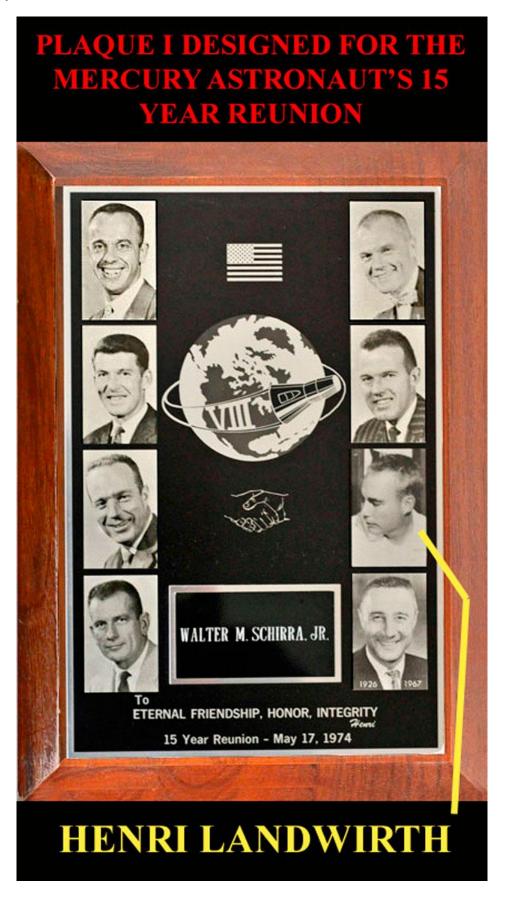


DAN ASSISTING MATINGLY REACH FOR THE OPS OXYGEN HOSE SO THAT HE CAN MAKE THE CONNECTION TO THE PGA OXYGEN INLET CONNECTOR.

(NOTE THAT MATTINLY WILL BE ASSISTED BY YOUNG AND/OR DUKE IN THE CM AS I WON'T BE THERE TO ASSIST. DARN IT!)

DESIGNING THE PLAQUE FOR THE 15 YEAR REUNION OF THE MERCURY 7 ASTRONAUTS

How I ended up designing and coordinating the fabrication of the plaque for the Mercury astronauts 15 year reunion on May 17, 1974:



This story centers around Alan Shepard and Henri Landwirth. Landwirth is a Holocaust survivor who came to America looking for the "American Dream."

He went into the motel/hotel business in Cocoa Beach. He first managed the Starlite Hotel and subsequently the Cocoa Beach Holiday Inn.

I'm sure many of you are aware of the close relationships Henri developed with the Mercury astronauts. Henri treated them like royalty and they spent a lot of time at the Starlight and then the Holiday Inn, "letting off steam" after vigorous training sessions at the Space Center.

During Apollo 14 EVA training sessions and subsequent Apollo 15, 16 and 17 training I considered myself a friend of Al Shepard, as well as a dedicated engineer responsible for PLSS/OPS EVA training at Kennedy Space Center.

Besides addressing me by my first name "Dan," Al, on many occasions, called me "Super Jew" because, as he explained, the Apollo crews never missed a training session as a result of problems associated with the PLSS/OPS training backpacks. (There were, in fact, many problems to solve!)

Al Shepard was known to many as having a dual personality. He could be very serious and hard-headed, as well as a prankster who got a lot of satisfaction when his pranks went off without a hitch.

Al told me a story about a prank on Henri Landwirth that he witnessed, a prank that the astronauts lawyer was responsible for. The lawyer arranged a meeting with Landwirth and the Mercury astronauts in Miami to discuss a hotel partnership. He (the lawyer) convinced Landwirth that jews weren't very welcome at the hotel and Henri went around with a raincoat over his head until the lawyer admitted his joke. Shepard saw the whole thing and they both thought it was hilarious.

I have to imagine that Al related the story to me since, as a jew, I could relate to religious prejudices of that era.

In early 1974, Henri had ownership interest in the Altamonte Springs Holiday Inn. I had moved to Orlando after Apollo 17 and being young and single frequented the "Why Not Lounge" at the Holiday Inn in Altamonte Springs.

One Friday or Saturday evening sometime in March of '74 (at the "Why Not Lounge") I saw Al Shepard at a table with a friend. I went over to say hello to Al and he immediately began smiling and introduced me to his friend who just happened to be Henri Landwirth.

Now, I'm not sure of Al's exact words, but to my recollection, Al said to Henri with a big grin on his face: "Henri, this is Dan Schaiewitz the "Super Jew" I told you about. We all laughed and I sat down to have a couple of drinks and a sandwich that Henri graciously offered me.

One or two weeks later I got a call from Henri asking me to meet him in his office at the Holiday Inn in Altamonte Springs. At the meeting, Henri told me about a 15 year reunion that he was arranging for the Mercury astronauts with Betty Grissom attending for Gus. He asked me if I would design a plaque for the reunion for each of the astronauts. How could I turn down that amazing opportunity!

Henri said he would send me photos of the "7" including a photo of himself that he wanted included on the plaque. The below photo represents the plaque that I designed and had fabricated for the reunion. Each plaque had the individual astronauts name. The plaque in the photo was Astronaut Schirra's.

After the reunion, I received the below letter from Henri.

LETTER OF APPRECIATION FROM HENRI LANDWIRTH

P. O. BOX 636

TELEPHONE 834-4455, A.C. 3





HI-WAY 436 & I-4

ALTAMONTE SPRINGS, FLORIDA 32701

May 21, 1974

Mr. Dan Schaiewitz 3111 S. Semoran Blvd. Orlando, Florida 32807

Dear Dan:

Please accept my thanks for all the time and effort you exerted in helping prepare the beautiful placque for our reunion. Everything was just perfect, and I can assure you, this gift brought forth a great deal of emotion on everyone's part. In appreciation, I have enclosed an autographed photo which everyone felt you should have.

In all the commotion, I somehow forgot to order one of the placques for myself, and I wondered if you could possibly do so for me. Please advise me, as I would be most upset not to have one, and am uncertain where to obtain it.

I do thank you for everything, and hope you will enjoy having this small memento of the occasion.

Sincerely,

Henri Landwirth

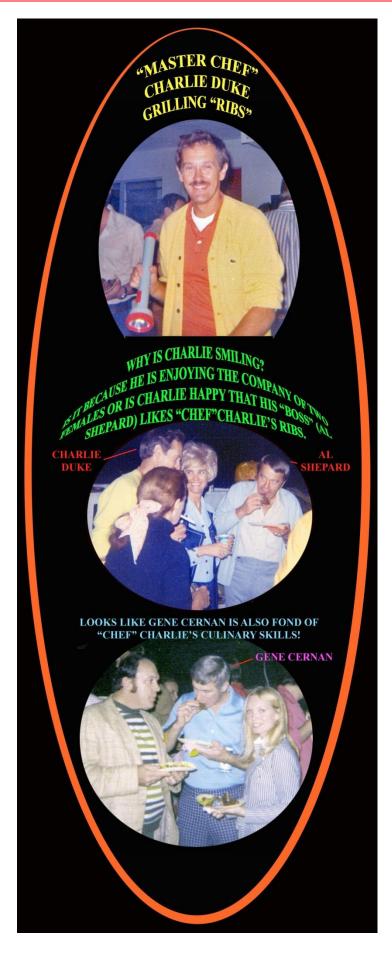
HL:cb

Enclosure

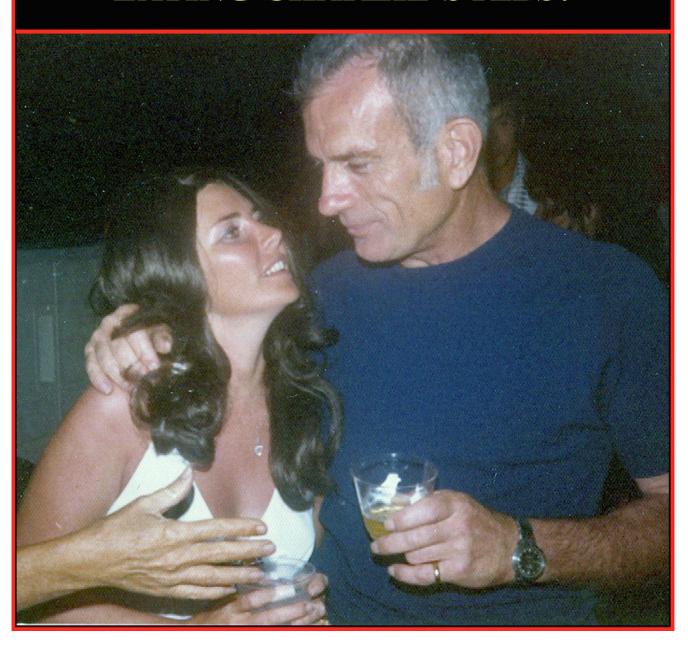
SIGNED PHOTO GIVEN TO ME IN APPRECIATION FOR DESIGNING MERCURY ASTRONAUT 15 YEAR REUNION PLAQUE



MORE ASTRONAUT PHOTOS TAKEN AT PARTIES AT MY COCOA BEACH APARTMENT



WAIT A MINUTE! WHY ISN'T DEKE SLAYTON EATING CHARLIE'S RIBS?

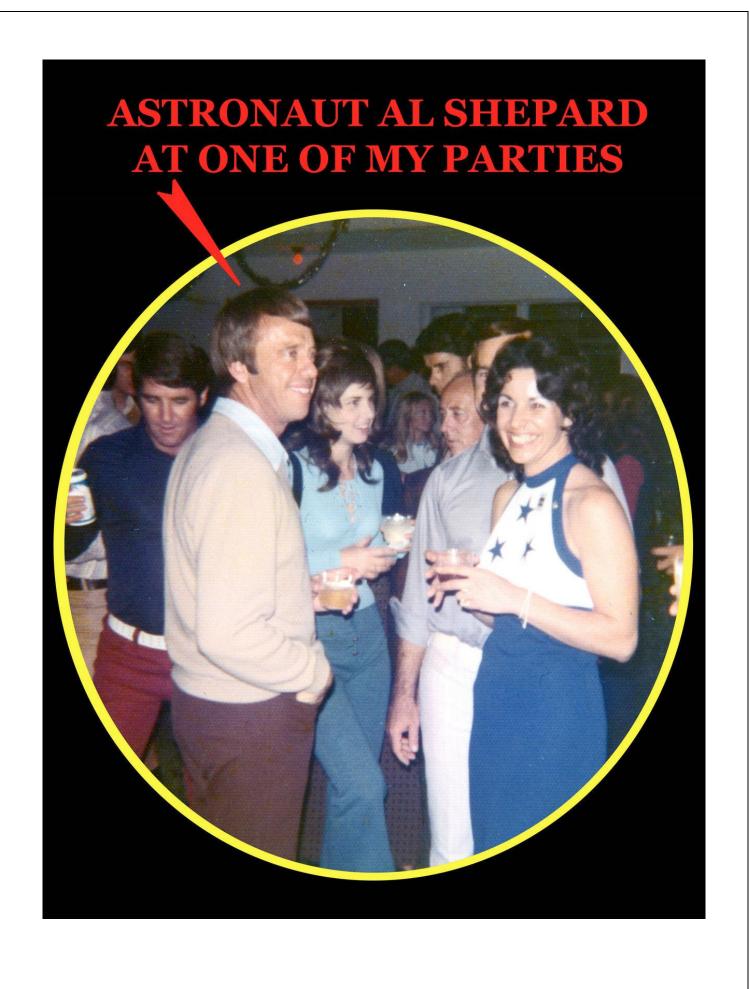


SLOGAN AND SIGN DAN
CREATED FOR APOLLO 17
PRE-LAUNCH PARTY
AT DAN'S PLACE SUBSEQUENTLY
DISPLAYED NEXT TO LM MOCKUP
IN CREW TRAINING BUILDING





MAKING THE SCENE WITH A GREEN SEVENTEEN



THE CASE OF THE FAKE MUSTACHES

THE CASE OF THE FAKE MUSTACHES!

APOLLO 17 PRIME CREW, BACKUP CREW & SUPPORT CREW, DAN SCHAIEWITZ AND TWO OF HIS TECHNICIANS THE APOLLO 17 PRIME AND BACKUP CREW HAVE MUSTACHES: (CERNAN, SCHMITT, EVANS, YOUNG, DUKE, & ROOSA)

WHOSE MUSTACHES ARE REAL?

