

DR AHEAD



THE AIR FORCE NAVIGATORS OBSERVERS ASSOCIATION NEWSLETTER

VOL 38, NUMBER 4

NAVARRE, FLORIDA

OCTOBER 2022



The Air Force's first operational CV-22 Osprey tilt-rotor aircraft hovers upon arrival at Kirtland Air Force Base, N.M., in March 2006. (U.S. Air Force photo by Staff Sgt. Markus Maier. Photo from Wikimedia Commons.)

PRESIDENT'S MESSAGE

by Jimmie Hanes, James Connally 66-13

I am writing this in August so the timing for inputs is quite unique. I hope you are coming to Ft Worth; it was good to see you, and at the same time, thanks for coming.

We are still looking at Waco for September 2023, and I would be remiss if I didn't advise the spouses that there is still a lengthy wait time for dining at the Magnolia Table. As the 100-degree temperatures abate here in Texas, we look forward to a cool, relaxing end to summer. May God continue to Bless the USA.

NOTAM: DEATHS and CHANGES OF PERSONAL INFORMATION

Report address, cell or land line number, and e-mail changes to: **AFNOA**, 4109 Timberlane, Enid, OK 73703-2825; or to jfaulkner39@suddenlink.net; or call 580-242-0526.

AFNOA 2ND VICE PRESIDENT BRETT A. SCHRIEVER

by Brett Schriever, Harlingen 61-10

Here are some highlights from my background. I graduated as distinguished graduate from Navigator Class 61-10 at Harlingen and then attended Electronic Warfare Operator's School at Keesler AFB.

After graduation as an EWO I was sent to Eglin AFB as an EWO test officer in 1962. At Eglin my job was to conduct tests of various radar warning and homing systems to determine their effectiveness, to test electronic countermeasures effectiveness, and to schedule various other requests for use of the passive and active electronic systems at the Eglin test range.

In 1964 I was transferred to Hickam AFB in Hawaii to be a navigator in the C-130 Nose Cone

Continued on Page 3

LOOK FOR THE 2022 AFNOA REUNION REPORT IN THE JANUARY 2023 ISSUE OF DR AHEAD

DR AHEAD PAGE 2 **TABLE OF CONTENTS**

President's Message, by Jimmie W. Hanes, Jr	
AFNOA 2nd Vice President, by Brett Schriever	1
Membership Application Form	2
Historian's Report, by Ronald P. Barrett	4
The Last Bus from Agana, by Murray Siegel	5
Scud Viewing, by Bob Johnson	5
A Nightfighter Navigator Recalls Space, by Richard Myers	
Flying is Dangerous, by Giles W. Willis, Jr	
C-133 Mission to Easter Island, by Paul Ogushwitz	
Letters	10
Last Flights, by Jim Faulkner	
The AFNOA Board & Operating Committees	
MEMBERSHIP APPLICATION AIR FORCE NAVIGATORS OBSERVERS ASSOCIATION Name Spouse's Name	DR Ahead is the official publication of the Air Force Navtors Observers Association, Inc. (AFNOA Inc.); a non-pnon-political organization dedicated to maintaining the peand security of the United States of America and a spin comradeship among all Aerial or Surface Navigators, Obsers and Bombardiers who are serving or have served in
Address City	U.S. Air Force or its predecessors, the United States MacCorps, the United States Navy, the United States Army, United States Coast Guard, or any of the predecessor or zations of these service organizations, or persons closely iated with navigation in any capacity on a case-by-case by
	TENOA, the forerunner of AFNOA , was organized by Cl Lampard, Ellington Class 50-D, in 1985.
State / 9-digit ZIP	
Home Phone	DR Ahead is published quarterly by AFNOA, Inc., 6 Avenida De Galvez, Navarre, Florida 32566-8911. Preso
Work Phone	3rd class postage is paid at Fort Walton Beach, Florida.
Cell Phone	MANUSCRIPTS are welcomed, especially by e-mail (addr sue.curran@att.net) or by submittal to the editor on data (IBM-compatible formats only please. All submissions mus
E-Mail Address	clude the address/contact of the contributor; no anonyn
Base Name/Class Number	material will be printed; however, names will be withhele request. The editor reserves the right to edit submitted art for reasons of taste, clarity, legal liability, or length. The of
Make check payable to AFNOA and mail to: Leonard T. Melcher, AFNOA Treasurer 103 Steel Valley Drive Boerne, TX 78006-7019	ments and views herein represent the views of the editor are not necessarily those of AFNOA , Inc. Deadline for the issue is <u>15 November 2022</u> .
Telephone: 512-296-5209 e-mail: c5nav@hotmail.com	CHANGE OF ADDRESS: Please report changes of addr to: AFNOA, Inc., 4109 Timberlane, Enid, OK 73703-2825 ifaulkner39@suddenlink.net; 580-242-0526.
Note: AFNOA is an IRS 501(c)(19) non-profit organization. Annual Membership — \$15.00 under age 79 \$50.00 for 4-year membership Age 80 and over — \$35.00 for life	DR AHEAD STAFF Owner AFI
If you are currently a member, GREAT! Please consider a donation to the operating account. If you are not a current member, please consider joining and giving a donation to the organization. Thank you.	Editor, Susan M. Curran sue.curran@at Editor Emeritus, Richard W. Ahrens RNNN327@gmail. Contributor, Murray Siegel mhsiegel43@gmail. Circulation, Jim Faulkner jfaulkner39@suddenlink Distribution, Errol Hoberman afnoa.distributor@yahoo.
Membership \$	
Donation to Operating Account \$	AFNOA LEGAL ADVISORS: Phillip D. Barber (Past President) pdbarber@comcas
Total Amount Enclosed \$	James E. Stark N943KS@outlook.

DR Ahead is the official publication of the Air Force Navigators Observers Association, Inc. (AFNOA Inc.); a non-profit, non-political organization dedicated to maintaining the peace and security of the United States of America and a spirit of comradeship among all Aerial or Surface Navigators, Observers and Bombardiers who are serving or have served in the U.S. Air Force or its predecessors, the United States Marine Corps, the United States Navy, the United States Army, the United States Coast Guard, or any of the predecessor organizations of these service organizations, or persons closely affiliated with navigation in any capacity on a case-by-case basis. TENOA, the forerunner of AFNOA, was organized by Clarke Lampard, Ellington Class 50-D, in 1985.

DR Ahead is published quarterly by AFNOA, Inc., 6441 Avenida De Galvez, Navarre, Florida 32566-8911. Presorted 3rd class postage is paid at Fort Walton Beach, Florida.

MANUSCRIPTS are welcomed, especially by e-mail (address: sue.curran@att.net) or by submittal to the editor on data CDs, IBM-compatible formats only please. All submissions must include the address/contact of the contributor; no anonymous material will be printed; however, names will be withheld on request. The editor reserves the right to edit submitted articles for reasons of taste, clarity, legal liability, or length. The comments and views herein represent the views of the editor and are not necessarily those of AFNOA, Inc. Deadline for the next issue is 15 November 2022.

CHANGE OF ADDRESS: Please report changes of address to: AFNOA, Inc., 4109 Timberlane, Enid, OK 73703-2825; ifaulkner39@suddenlink.net; 580-242-0526.

DR AHEAD STAFF

Owner **AFNOA** Editor, Susan M. Curran sue.curran@att.net Editor Emeritus, Richard W. Ahrens RNNN327@gmail.com Contributor, Murray Siegel mhsiegel43@gmail.com Circulation, Jim Faulkner ifaulkner39@suddenlink.net Distribution, Errol Hoberman afnoa.distributor@yahoo.com

AFNOA LEGAL ADVISORS:

pdbarber@comcast.net N943KS@outlook.com

Continued from Page 1

Recovery Squadron. I flew one mission involved in the successful recovery by my aircraft. Recovery missions involved four aircraft and one helicopter, and occurred 3-4 times a year.

I was sent to Ubon RTAFB in Thailand to fly C-130 gunships in 1970. I was trained in the operation of each of the four positions manned by a navigator; table navigator, EWO operator, infrared operator, and low light TV operator. Upon arrival at Ubon, I was assigned the duty as the Stan-Eval Navigator and had to write up the table navigators' procedures and associated tests. In addition, I had to give new navigators their check rides. When the wet season arrived, I was transferred to Saigon at the 7th Air Force Headquarters to support the command briefing team.

In June 1971, I was assigned to Hurlburt Field in northwest Florida where I served as an instructor in C-130 gunships for two years.

In 1973 I was transferred to the Pentagon in the Operations directorate as a staff officer. There I was an emergency support staff officer for any emergency actions around the world that involved air staff support. I was also tasked to implement Air Force-wide a new system to measure the readiness of every unit down to the squadron level. The system was to replace the C-rating system in which each squadron commander was to rate his unit from C-1 through C-4, with C-1 being fully ready to C-4 being not ready. Four components were measured: (1) personnel readiness, i.e., number of pilots combat ready and available vs. number assigned; (2) assigned systems status, i.e., number of aircraft combat ready vs. number assigned; (3) system maintenance status, i.e., qualified staff, and required maintenance equipment and parts status; (4) wartime maintenance and spare parts deployment kits status. The new system measured the same four categories but changed the measurements to percentages from 0% to 100%. This did not significantly change the first three categories but was designed to accurately reflect the fourth category. This was brought about because of a disconnect between the way the squadrons were reporting this status. Units regularly raided these kits to keep planes flying, therefore the Air Staff was continually requesting large amounts for unit war deployment kits. Congress did not understand why the Air Force was continually requesting large amounts of funding for something which should stay reasonably stable. The objective, therefore, was to be able to justify the need for the necessary additional funding using a format that congress could better understand. The system was fully implemented prior to my departure for duty at Headquarters NORAD.

At NORAD my first assignment was as Deputy Director for ADP Resources. I was tasked to assist in an analysis of the security of the NORAD communications systems. The results of the study exposed some weaknesses in several areas. I briefed the results to the AF Communication Services Command. Next, I was assigned to be the chief of the NORAD Systems Center which was responsible for overseeing and managing all the communications for all the sites and systems. This included requests for systems down times, ensuring the real time status of all sites and systems, and responding to system failures and errors, i.e., false warning generated by a bit swap in a message.

I retired in 1981 at the rank of Lieutenant Colonel. After retirement I worked for several government contractors as a senior systems engineer and a program manager. In 1989 a friend of mine and I formed our own company to pursue government contracts. In 1990 after the first Iraqi War, we teamed with a small company to pursue contracts in Kuwait. I and a member of the other company arrived in Kuwait on June 30, 1990. We spent a total of nine months over the next year during which we proposed and entered negotiations to rebuild two destroyed small harbors, rebuild the central city communications links, install a coastal ship tracking radar system and a Kuwait harbor ship tracking system. Unfortunately, we ran out of money before we could complete a negotiated contract and had to abandon the effort. From that point forward we were able to develop multiple small contracts, both commercial and government, which continued well into the twenty-first century. I myself guit the company in 1998 to pursue a doctorate in computer science.

After completing all but the dissertation, I gave up my studies in order to support a son who was a single dad and who had just been commissioned as a second lieutenant in the Air Force, after completing 11 years and 11 months as a nuclear tech in the Navy. That made him the family's fifth-generation officer serving in the United States military. This was when we moved to Oklahoma, first to Oklahoma City then to Enid, OK. I have been serving on the Enid Air Force Association Chapter Board of Directors since 2010, and I have been a member of **AFNOA** since 2014.

Editor's Note: Brett's father was General Bernard A. Schriever; Schriever Space Force Base (formerly Schriever Air Force Base), is named after him.

NOTAM: ELECTRONIC ROSTER

We no longer print and distribute an **AFNOA** roster. Electronic copies are available in Microsoft Excel. E-mail Jim Faulkner at jfaulkner39@suddenlink.net for a roster.

HISTORIAN'S REPORT

by Ronald P. Barrett, James Connally 63-06

Some Nuggets of Wisdom from the Historian on Museum Organizational matters:

- Neither **AFNOA** or I continue to solicit for "collections" of navigational tools. The museums are reducing such displays.
- The National Museum Foundation of the USAF at Wright-Patterson AFB is working hard to obtain funds as HO (history) funding is being reduced.
- The USAF History Office/Pentagon is further working to reduce "field museum" support, so we all need to consider helping there if possible.
- The Mighty Eighth WWII Museum near Savannah, GA, is the only military-aligned museum with a professional "library" staff (Dr. Susan Rice).
- Overall military-museum gate is down and entry fees are becoming a real issue.
- **AFNOA** members possessing unique history knowledge, please get to me ASAP! Email is best (ronald-pbarrett@yahoo.com). The reason is that there is no official museum, (not HO, not NM-USAF, not Smithsonian, not military branch) and not many of the unique flight groups, saving our proud service histories.
- **AFNOA** asks that all who have unique navigator-related articles, books, tech manuals, photos: sign them, note units and dates and get them to me; I will edit and create another thumb drive, as I did the AF Navigators Comprehensive History. Let's get whatever we can collect—before all is gone—as we are going now rather fast into the heavens (I hope) above, chuckle.

An Interesting Museum: Aviation Unmanned Vehicle Museum founded by Lt Col "Red" Smith (former SPO UAV W-P AFB) at Caddo Mills, TX:



DC-130E with attached drone at a western USA test site. Photo from Wikimedia Commons.

I admit that only in a cursory way do I have any knowledge of this part of our Air Force history, although my 63-06 James Connally 1961 upper classman Nehru Permaul was in the UAV programs as a lieutenant navigator in Vietnam. Nehru later was

assigned to the UAV SPO at W-P AFB (1965/66). I was not personally in and or around the UAVs.

Recently I learned of Lt Col Harold F. Smith and the AUV Programs. The Aviation Unmanned Vehicle Museum (AUVM) is a collection of incredible rare drones and artifacts, and was founded by retired Lt Col Harold ("Red") Smith.

Lt Col Harold F. "Red" Smith and his crews and SPO Office at W-P AFB area B had a significant part of the USAF UAV (now called drones) program. Sorry to say, Lt Col Smith was killed by a drunk driver a few years ago. His son and grandson now head up this unique UAV museum in Caddo Mills, TX, (northeast of Dallas). Go to www.auvm. net for more photos and information. Very interesting.

If you (AFNOA) can volunteer and help this really unique museum call Clifford Smith (grandson to Red) at 903-200-1245. It also comes to mind there had to be other Navigators/EWO/WSOs in the back of the DC-130s. We need to document for historical purposes what the navigators' tasks were. Do any of you all know anything about these UAV/drone programs? If so email me at: ronaldpbarrett@yahoo.com, or 305-797-0745 (for texting). Thanks.

BQM-81A target drone at the Aviation Unmanned Vehicle Museum in Caddo Mills, Texas. Photo provided by Clifford Smith, AUVM.



AFNOA DONATION LIST

The following list of Navigators donated \$100 to the AFNOA operating fund. This donation is much appreciated:

James Isaacks (Ellington 44-06)

William Smith (Harlingen 61-01)

Ira Kroese (James Connally 63-04)

Leonard Melcher (Mather 74-18)

THE LAST BUS FROM AGANA

by Murray Siegel, James Connally 65-03

It was the summer of 1968 and I was flying Arc Light B-52 missions, primarily out of Guam. When I was not flying, I had made friends with several civilians who were living in Agana, then the island's capital. One Saturday evening, I was invited to a party in Agana and since I was not flying, I could go. One of my friends drove to Andersen AFB to take me to the party. At the end of the evening, when my friend offered to drive me back, I told him that I would take the Air Force bus to the base, and I caught the last bus that night from Agana to Andersen.

I looked around the bus and noted that I was one of only two white folks on the bus; the remaining passengers were African American, and I was probably the only sober passenger. After the bus pulled out, a number of the black passengers began complaining about how they were treated by the Air Force and a few made statements that it might be a good idea to beat up the white guys on the bus.

There was not much I could do and I became quite frightened. Fortunately, one of the black airmen on the bus knew me from our home base and told the others that I was a captain. I guess assaulting another enlisted man was not too bad, but attacking an officer was not a good idea.

The complaining continued but there were no more threats of violence. When the bus entered the base, I jumped off immediately and walked the rest of the way. This was to be the most harrowing moment in my Arc Light experience, more so than any mission over North Vietnam. Once I calmed down, I began to consider the situation: what if I had been a black man on a late-night bus in the Jim Crow South where the other passengers were rowdy white drunks? I did not report the incident, nor did I ever ride the last bus from Agana again.

SCUD VIEWING

by Bob Johnson, Mather 78-20

During Desert Storm, many of the U.S. military in Riyadh, Saudi Arabia, were housed in an unused Bedouin compound called Eskan Village on the southern outskirts of Riyahd. The compound was made of about 400 single-story, 2,000 sq ft, 3-bedroom, concrete houses with all the amenities. They had inside stairs that went up to a roof patio. Each house had a solid five-foot concrete wall around the roof patio so the families could do things and store stuff on the roof without the neighbors seeing.

When Saddam Hussein started launching Scuds into Saudi Arabia in February '91, sirens would sound in Riyadh to alert everyone to take precautions against ex-

plosive and chemical attacks. The morning after the first Scud launches, there was a mandatory Commander's Call where we were briefed on what was going on with flight schedules. They told us to open and install the real chemical warfare canisters into our gas masks, have our chemical warfare suits ready to put on, etc.

At the end of the briefing, the commander mentioned he had seen a few crews on the roof patios during the previous night's Scud warning and said everyone should stay off the roof. He said he couldn't explain to our friends, spouses, and parents how we were on the roof watching the Scuds come in to hit us! Everyone laughed!

That evening after the Commander's Call, there was another Scud attack on the area. Everybody had their chem suits and masks at the ready...right next to them as they were standing on the roof patios of their houses watching the Scuds! From what I could see, there wasn't a roof without people on it!

And yes, we did see some Scuds coming down and Patriot missiles intercepting them miles away.

A NIGHTFIGHTER NAVIGATOR RECALLS...SPACE

by Richard Myers, James Connally 52-02

Navigate in space? Nearing the end of my AFIT grad school assignment, I saw no chance of working in "space operations," that being the province of NASA. So, my next assignment would be what? No idea. Then, hearing of "SSD" and its possible connection to "space operations" I sought more info by asking everyone. I eventually learned USAF had a Systems Command, with divisions studying new aircraft, radars, ballistic missiles, and an SSD division, which to me suggested a Space Studies Division. Why was there no info about it?

Did SSD Studies include space navigation? No one knew. I called the Air Force Institute of Technology (AFIT), and learned that SSD means Space Systems Division, Los Angeles. It does studies, yes, but also "looks at" space operations. Could they use a good navigator? Answer: yes—if they study navigation. My Electronics MSEE degree might help—maybe. But my request for assignment should be not to AFIT but to Pentagon Personnel. I followed their advice quickly, carefully, expecting to study space navigation.

A navigator in SSD: Late January of 1965, my wife Aileen, our little folks, and I drove to L.A. Space Systems Division put me in an engineering group working on studies and (surprise!) on an actual spacecraft. A rule: "Be discreet about our spacecraft—don't discuss its details outside these offices." SSD had a T-29, fully equipped for navigating, at LAX a few miles north—and our engineering group, for lieutenant up through colonel, included several navigators and pilots. The Group showed interest in my navigation, but even more so that

at OSU I had learned to solve many forms of "impossible" engineering problems by writing "iterative" algorithms (solutions by trial-and-error step) to create "loops" in math-language-programs, which I'd run on OSU's big IBM computer. So, I went to the Electronics Branch and problems of the spacecraft's new, on-board, space-navigation computer.

Non-stop navigation: My new leader, Lt Col "W", MSEE, said, "We've launched some. It's flyable and we're improving our bird's subsystems." All dozen or more of his engineers seemed busy, but he called two in for introductions, and said the four of us would attend to the computer. He asked how much I already knew about the spacecraft. I shook my head, and he asked how I would imagine it. About that I had ideas—a spacecraft in space (no wings) could not only monitor its subsystems and export them to cockpit or ground-base, but navigate non-stop, its computer storing (from accelerometers) the three-dimensional coordinates of its position vis-à-vis an internal clock. Also, it could accurately handle path and ETA—and a computerized DR Ahead, too. I noticed "W" jotting notes as I spoke. He smiled and said, "It has a clock, yes, but you need a briefing. First, no cockpit—it's unmanned. Also, our computer has budgets for size, weight, and electric power; so all navigation computations are on the ground. If our staff wants a maneuver, it uses high-speed computers to create sets of commands, then telemeters, packets of commands up to the bird. Bird un-packs them, stores them, watches its clock-and issues each command when clock matches its time-tag. The craft moves at over 17,000 miles per hour, so time-tags are expressed in tiny fractions of a second—don't ask what size. So, you couldn't navigate it alone. You'll navigate in space, but as part of our tech team. Welcome."

FLYING IS DANGEROUS, OR COMING UP SHORT IN A MUDDY BIRD

by Giles W. Willis Jr., Ph.D., PE, Ellington 55-08
In the summer of 1954, I was at Ellington AFB in
Houston. I was just told that the navigation training had
changed and I would be at Ellington for the next year
rather than the few months in Texas and the rest of my
training in California. At the time I attended, we were
one of the first classes in the Primary Basic Observer
training program, or PBOC. We had classroom training
on various subjects and flight training in the T-29 Convair. This is a short story about my first flight in the T-29.
On this flight were new guys like me from my class (5508). We also had radar trainees from a more advanced
class.

The flight was part day and part night. The flight went up north where we had to use DR and map reading to find out our positions. It's surprising how all the towns look alike from the air. But my view was out the side window overlooking an airplane wing. When we returned

to Ellington, the weather was bad. Map reading was over. I could not see the ground. Ellington was below minimums so we had to land at Houston Hobby (HOU), where they had GCA (Ground Control Approach). This was a big deal for me. I could listen in on the cockpit voice and the GCA operator's calls as to the distance and direction. So, we would hear the operator say, "Five miles from touchdown," "On glide path," "On centerline," "Maintain current heading and rate of descent." It felt confident to know that even though we could see nothing outside our windows, someone was watching and bringing us in for a landing. Then we heard, "Approaching two miles from touch down," and at that moment, boom! We hit the ground. Our landing gear had not been extended. No one, including the pilots, were expecting that we would hit the ground.

The plane bounced back into the air and the pilots added power. We were able to climb out. The ground was still socked in, as I could still see nothing out of our windows. The pilot said, "That's it! We are going to San Antonio and spend the night."

When we landed at San Antonio, we got out and looked at the plane. The bottom of the T-29 was covered in mud. The next day the maintenance crew checked over the plane and cleaned it up. We returned to Ellington where the weather was now fine. After landing, several of us drove over to the HOU airport and found where we had hit the ground. It was in a plowed field. Between that spot and the end of the HOU runway was a mass of overhead electrical wires that were directed around the end of the runway. There was no way we could have gotten through this mass of wires, but we did.

Lt Jack Bowman, one of the pilots, told us later what had happened. As it turned out, we had a trainee on our GCA in HOU. We didn't know that. The weather conditions were such that we should have had a fully trained operator giving us directions. The trainee had set up the GCA incorrectly and he was actually bringing us in to a touchdown point a little over two miles from the end of the runway. They should have had an instructor watching the trainee, but they didn't. This is but one of many examples that flying is dangerous. That's why we got the flight pay. This incident has to be put into the unexplained miracle category.

NOTAM: DR Ahead Distribution

AFNOA members who are current on dues should receive the e-mail copy of *DR Ahead* by the 7th of the published month (January, April, July or October) or the paper copy via USPS by the 25th of the published month. IF NOT RECEIVED, contact Jim Faulkner (jfaulkner39@suddenlink.net) or Errol Hoberman (afnoa.distributor@yahoo.com). Note that e-mail copies may sometimes go into the "spam" or "junk mail" folders so please check them before contacting **AFNOA** representatives.

C-133 MISSION TO EASTER ISLAND

by Paul R. ("Gus") Ogushwitz, Ph.D., Mather 70-21

Easter Island is a volcanic island in the southeast Pacific Ocean. It is located at approximately 27°07'S and 109°22'W. It is roughly due south of Salt Lake City and about 2000 nautical miles west-northwest of Santiago, Chile. Easter Island is one of the most isolated places on the planet. Pitcairn Island, the closest inhabited land, is about 1100 nautical miles west of Easter Island and lacks an airport. Politically, Easter Island is a "special territory" of Chile, while geographically it is the easternmost island in Polynesia.

During December 1970, the 1st Military Airlift Squadron (Dover AFB, Delaware) was tasked with fetching cargo from Easter Island and delivering it to Robins AFB, Georgia. Our loadmaster, (now retired Col) Jack Anderson, recently reminded me that the cargo was classified and the mission was not.

The C-133 was the Air Force's "heavy lifter" cargo aircraft from its first rollout in 1956 to fleet retirement in 1971. By the 1970s, the C-133 fleet had exceeded its airframe life expectancy almost by a factor of two. The fleet was worn out, and maintenance problems were frequent.

For those unfamiliar with the C-133, I recommend a visit to "View The C-133A Flight Deck Overview" in the C-133A article at the Air Force Museum website. The navigator station was back-to-back with the pilot (which means I have flown perhaps a million miles facing backwards). The C-133 navigational equipment was primitive by modern standards. At the top of the panel was the Loran-A scope (APN-9), the radar scope (APN-59), and the radar altimeter (not sure what the designator was). On the bottom left was the Loran-A receiver (APN-70). The nav station was also equipped with pressure altimeter, true airspeed meter, gyrocompass, outside air thermometer, time clock, and auto direction finder (ADF). An instrument panel at the navigator's right shoulder had HF radio controls, along with other controls and fuses that the wise navigator never laid hands on unless specifically ordered to do so by the A/C. Finally, and in my book most importantly, a Kollsman D-1 sextant could be mounted in the ceiling of the cockpit. Notably, the aircraft lacked a drift meter, and we had no on-board Doppler. My Mather classmate. (retired Lt Col) Sam Baker, points out that the C-133 had significantly less nav gear than did the antiquated T-29 aircraft we trained on.

I wonder when the word "ergonomics" was first coined? The Kollsman sextant was mounted in the entryway to the cockpit. The navigator stood on a fold-down platform while taking cel sights. A vital item of crew coordination was to warn everyone not to trip on the platform nor bang their head on the sextant. Another cause for dismay was that damnable ashtray on the

left end of the work table. Most of those ashtrays went missing, which left roughly 3" diameter vertical holes through the left side of the nav stations. With ashtray or without, the left end of the desk was a good place to bruise your left elbow and/or to damage a chart. What were those aircraft designers thinking?

The 1st MAS had conducted a few missions to Easter Island earlier in December, 1970. Happily, the returning aircrews did tell us what goods to bring for trading with the islanders. Sadly, they did not brief us as to navigation, radio communications, or other flight essentials. So each "next navigator" ventured forth on his own totally new adventure.

The crew roster for the Easter Island mission is given in the attached flight order. (The Social Security numbers have been masked out.) There was the usual crew of six-pilot, copilot, navigator, two flight engineers, and loadmaster. There were four additional crew members (ACM)—a medical officer and three maintenance personnel.

Our first aircraft was tail number 62000. We made four abortive flights in that aircraft. On 15 December 1970, there was a problem after takeoff, and we returned to Dover after a half-hour in the air. On 16 December, there were two flights, each lasting less than an hour. These may have been test-flights, although as I recall the full crew complement was on board. We returned to Dover each time. On 17 December, there was one flight lasting five hours. We returned to Dover yet again.

		FLIG	HT ORDER					
All c	fied aircrew rew members	ted below will proceed in aircraft ind members are authorized to perform FC cleared for Secret except as indicated, object to the provisions of the Uniform	'F's at enroute statio Variations in itingrae	ns where MAC	FCF personn	el are not a	outland.	
a. FROM	l:		4. EFFECTIVE O			ON OR ABO	UT	
	Dove	r AFB, Delaware	15 December	r 1970	15 Jan	uary 19	71	
South America RETURN TO: Dover AFB, Delaware		S. DESIGN AIRCS NUMBER, OR CALL SIGN	OESIGN AIRCRAFT, SERIAL NUMBER, OR TACTICAL CALL SIGN		7. MIRRION Airlift			
			INFORMATION	33A			_	
			ORGANIZATION		CREW	CREW	T	
CODE	GRADE	NAME	(If other then (2)	SSAN	POSITION	QUAL	CLNC	
_ ^		c	D			G	н	
1.	II COL	JOHN C DYER			AC	AC	TS/E	
2.	llt	DANIEL F HAYES			CP	CP	TS/B	
3.	SIT	P.UL R OGUSHWITZ			N	N	TS/8	
h.	CAPT	DAVID L KLEIN	1607 Hosp		MT	M/C/NO	3/NA	
5.	TSOT	FRINKLIN X VICTORY			FE	IFE	3/NA	
6.	S90T	JOHN D LYTLE			PE	1FE	S/NA	
7.	SGT	JACK L ANDERSON			LM	ILM	S/NA	
8.	SSGT	JON D SEDDON	617 OMS		CC	WYC\IIS	S/NA	
9.	SECT	CARL AT CHASE	436 FMS		oc	MYC/NO	S/NA	
10.	TSGT	WILLIAM R'N HOWTON	436 FMS		CC	MAC/NQ	S/NA	
	MRS auti	orized TAW MM 55-1, para 2	YSAFELY 23.3. All crew	members a	llowed 1	56 1hs	-	
(1	In Comm	Following additional d and (<) Crew Equipment Off						
		NS ONLY - PASSENGER QUALIFIED	□ YES	C) NO -				
I ALL CI		S QUALIFIED IAR AFM 35-99.	- ves	A NO				
57X4922		-65DA 213020 Oh h0934 S 52 0 528h00 h073h	8400 M-323		14 Dece	omber 19	70	
BAS \$1.	39 per d	ay		- AYM 1926	-02			
DEPAR	THENT OF T	HE AIR FORCE RLIFT SQUADRON (MAC) Base, Delaware 19901	IN BIGNATURE E	Mickel C. R	IFFE.	br, USA	F	

Flight Orders to "South America." Photo provided by Paul Ogushwitz.

On 18 December, we departed Dover on board a different aircraft (tail number 40145). The mission proper had begun! That day, we flew to Howard AFB in the Panama Canal Zone. The following day, we flew non-stop from Panama to Los Cerrillos Airport at Santiago, Chile. Chile had been experiencing political unrest for some months. Salvador Allende had become the President of Chile in November, 1970. The streets of Santiago were replete with political banners, posters, and demonstrators. We were ordered to wear civilian clothing while in Chile and on Easter Island. I remember bringing (among other clothing) bell-bottomed trousers and a grotesque polka-dotted purple shirt, which was customary "townie" garb of that era.

We flew to Easter Island on 20 December 1970. We took off at 6:13 a.m. local time. Our daytime flight lasted 8½ hours. During the first hour or two of the flight, we passed north of the Juan Fernandez Archipelago. I recall detecting distant Robinson Crusoe Island on radar. For the next six or seven hours, there were no further radar targets, and aids to navigation were minimal.

By 1970, there were many aids to air navigation in other parts of the planet. However, navaids remained sparse in the Southeast Pacific. There were few usable radar targets. There were no ocean station vessels. There was no Loran service of any kind. Consolan (also called "Consol") was only available in the Northern Hemisphere, as far as I am aware. The only available radio aid to navigation was ADF (Automatic Direction Finder). We detected ADF for a few hours from Santiago, Chile, and then it was too distant to be reliable. Although we also intermittently detected ADF from Tegucigalpa, Honduras, that station was hundreds of miles to the north, and its signal was wildly unreliable. In essence, ADF radio was only good enough to confirm that we were somewhere in the Southeast Pacific.

Because the C-133 aircraft was not equipped with a drift meter nor with on-board doppler, we were left with just two usable navigational techniques for most of the flight. One technique was a now-obscure method called "pressure differential navigation" or "pressure pattern navigation." Pressure pattern navigation relied on the difference between pressure altimeter readings and radio altimeter readings to obtain course lines (i.e., lines of position parallel to track).

The other technique was celestial navigation. Had the flight been at night, abundant stars in the clear southern summer sky would have made navigation easy. The flight was scheduled for daytime, however, and celestial nav was limited to sun sightings. As usual, no one consulted this lowly second looie as to takeoff time. "Theirs but to do or die."

Normally, sun sightings would not have been a problem. However, we were within a day or two of summer solstice (December is South American summer).

This gave rise to serious challenges. Early in the flight, the sun was near the horizon and almost directly behind us. To get accurate speed lines (i.e., lines of position across track) required very careful observations of solar elevation. Happily, elevation readings were quite reliable, because the sextant was equipped with a two-minute timer-averager, which compensated for small motions of the aircraft during the sighting. So, early in the flight, we knew how far we were from land.

However, as the morning wore on closer and closer to local noon, the sun climbed to within three or four degrees of zenith. The navigational situation changed radically. The sun was abeam the aircraft, so solar sightings were now giving us a course line. Although it was reassuring to have two course lines (one from "pressure" and one from "cel"), what we really needed was a speed line. We needed a speed line to know how far we were from the island and whether we would have enough fuel to get there. In theory, a speed line could be obtained by observation of solar azimuth. However, an azimuth reading was much less precise than an elevation reading because there was no averaging of azimuth. Furthermore, because it was southern midsummer day, the noon sun was almost directly overhead. Under this condition, the diameter of the solar disk became a significant fraction of azimuth angle, which meant less accuracy in azimuth. I faced this navigational problem later in the flight, very far from the continent, and with much less fuel in the tanks.

As time wore on, I became aware of a steadily increasing amount of foot traffic in the cockpit. There was more than the ordinary amount of "glancing-over-shoulders" at my nav station. There was some surreptitious peering at the markings on my chart. There were quite a few remarks along the lines of "How we doin', Nav?"

The simple fact was that, well into the journey, I had two course lines, and they were mutually supporting. They both pointed at where Easter Island was marked on the chart. The only possible catastrophe would have been if Easter Island had been mislocated on the chart. So I was certain we would get there. I did not know exactly when that would be.

In retrospect, we were fortunate that two navigational aids were available, pressure pattern and celestial navigation. Had we had only one navaid (either one), we would have had to estimate our ground speed largely by dead reckoning. That would have been hairy, considering that we were well beyond the point-of-noreturn by the time we made landfall at Easter Island. As it turned out, I was able to squeeze just enough info out of those primitive instruments. When we detected the island on radar about 150 miles out, our (essentially) DR position was dead-nuts accurate after a journey of two thousand nautical miles. So who needs GPS?



Landfall at Easter Island. Photo provided by Paul Ogushwitz.

I took photos over the pilot's shoulder while landing at Easter Island. (Note: The photos are adorned with a mossy green patina after being stored in attics for many years.) We made landfall at Cape Roggeveen (above); an extinct volcano named Puakatike is visible in the photo, although its summit is obscured by the aircraft's left-central window frame. We overflew Cape Roggeveen, then began our downwind leg over the ocean along the north shore of the island. We turned southwest onto base leg while observing a freshwater crater lake called Rano Aroi in the caldera of volcano Terevaka. We continued on base leg, now over the ocean again on the west side of the island. Finally, we turned on final approach and landed at Easter Island Airport.



Final approach at Hanga Roa. Photo provided by Paul Ogushwitz.

In this photo, one can see that the airport (the entire island, for that matter) was quite desolate in 1970. There was a single airstrip with just one parking pad for aircraft. There were a few ramshackle houses, one or two shabby official buildings, some dirt roads, and a curious monument at the airfield. By comparison, the latest satellite imagery for Easter Island on Google Earth shows many roads and buildings. The photos on

Google Earth show spiffy tourist hotels, tony people, and paved roads. The airport now bears the imposing title "Mataveri International Airport." So much for "getting away from it all."

The Wikipedia article about Easter Island includes (or used to include) an enchanting photo labeled "Polynesian dancing with feather costumes is on the tourist itinerary." We received no such greeting. The islanders met us in friendship, wearing ordinary clothing. We were all eager to trade. In accordance with the briefings we had received from earlier C-133 crews who had made the trip, we had brought clothing, soap, cigarettes, and other useful items. We traded our stuff for the islanders' skillful wooden carvings of Easter Island figures.



Monument at Hanga Roa airfield. Photo provided by Paul Ogushwitz.

Probably it was our pilot, Lt Col Dyer, who wangled us a bus ride to see the famous statues along the west coast of the island. Then we bussed to the northeast part of the island, where the "Statue Factory" is located on the slopes of volcano Rano Raraku. All of the island's world-famous stone statues were quarried and carved at Rano Raraku, centuries ago. We saw one enormous statue, 60 or 70 feet long, still lying on its back in the quarry. That giant statue was left unfinished and was never completely separated from the native rock.



Crew, left to right: Copilot 1Lt Hayes, Aircraft Commander Lt Col Dyer, and Flight Engineer TSgt Victory. Photo provided by Paul Ogushwitz.

By the following day, 21 December, the cargo had been loaded onto the aircraft. We took off at 6:09 a.m. local time. It was to be one of the most eventful takeoffs in my USAF experience. Winds were easterly, so takeoff was toward the southeast. The aircraft did not accelerate as expected. We were within a few dozen feet of the end of the runway before we finally achieved minimum takeoff speed. Hearts were in throats. Happily, the southeast end of the runway is at an elevation of about 150 feet above sea level. Lt Col Dyer coaxed the aircraft a few feet into the air, flew us over the bushes and past the cliff, and then descended slowly toward the ocean at takeoff power until we had gathered enough airspeed to make a proper climb. A less-experienced pilot might have tried to force the aircraft upwards, risking a stall. Were it not for Colonel Dyer's skill, we might have ended up in the drink. We probably owe him our lives.



Easter Island statues and navigator Lt Ogushwitz in mufti. Photo provided by Paul Ogushwitz.

Compared to navigating toward an island, navigating toward a continent is relatively stress-free. The flight back to Chile was unremarkable. We landed in Santiago after eight hours in the air. The next day, we flew to sunny Lima, Peru, staying two days. I recall we went on a shopping tour and visited a local farmer's market, where I bought a beautiful handmade alpaca poncho. (I later gave the poncho to a young lady, a grad student at Princeton, whom I was wooing at the time.) C-133 crews often found opportunities to go shopping for unusual items at attractive prices in exotic locales.

On 24 December, we flew to the Panama Canal Zone. The local ambient temperature was in the high 80s or low 90s. Although it was very humid and decidedly un-Christmassy, the turkey dinner was just right. We returned to snowy Dover, Delaware, on 25 December. On 26 December, the crew (minus ACMs) flew the aircraft with its cargo down to Robins AFB. Because it was the day after Christmas, no ground personnel were available to assist with off-loading. We "commandeered" some ground equipment. The six of us

off-loaded the aircraft, under direction of the loadmaster. The three officers drove the forklifts, and the flight engineers were responsible for securing straps and so on. It was a textbook example of crew coordination and Yankee ingenuity. We flew back to Dover the next day for crew rest.

Later we learned that ground personnel at Easter Island had underestimated the cargo weight by twenty thousand pounds. Ten tons of excess cargo weight had caused an unexpectedly long and nearly catastrophic takeoff roll.

LETTERS

To: Editor, DR Ahead

26 July 2022

Dear Susan,

Thank you for continuing to publish *DR Ahead*. Being able to read them over the years has revived many fond memories that I obtained while I was in the U.S. Air Force. In the July 2022 Issue, I had fun with the stories about Survival Training at Stead AFB. I personally identified with "Survival School—A Different Story." I believe that I went through some of the earlier classes before it was fully defined (February 1963). In writing this note to you, I decided that it was time to thank the crew that refueled us in the EC-135C. I reread the entire July issue several times, thinking that I was finally losing it; there was no article.

I then pulled up the April 2022 issue and found "Through the Looking Glass." As I reread this article, I noticed that the KC-135 was from McConnell AFB, whereas my memory was that it came from Altus AFB. I then saw that it was written by Dave Schneider, Mather 82-05. This story is nearly 20 years later than mine. I then went through my storage and found my old "Navigator's Log." So here is an earlier version of a similar event:

MEMORIES OF BEING REFUELED IN AN EC-135C

I was assigned to the 34th Air Refueling Squadron at Offutt AFB. Our duties and missions were pretty standard for SAC. We stood alert for a week at a time, as well as training missions, tactical missions supporting fighters en route to training exercises, and month-long "Chrome Dome" missions in Torrejon AB in Spain, flying 2-3 refueling sorties per day. We also flew Looking Glass, right there at Offutt AFB. We flew these missions in the KC-135 A and B. In January 1965, we started flying Looking Glass in the new EC-135C. Not only did it have improved command gear, it had a refueling receptacle in order to receive fuel, and newer more powerful engines (it felt like someone had hung one or two extra on the plane).

During the following month, we used the enhanced refueling feature. Please note that the standard missions were LG-1, LG-2 and LG-3 (taking off at 0000,

CA

44-04

0800 and 1600, local time.) On 11 February 1965, we launched LG-1 at 0000 (0600Z). In approximately 10-15 minutes, all communications were established and the general, on board, took over command control. This mission is usually a rather routine mission, flying non-predetermined patterns, and announcing the next leg to Kansas City Air Traffic Control. We had water, hot coffee, and food. The next 6-7 hours were somewhat uneventful. We were then informed that while we were flying, it had snowed 19+ inches. They were having trouble snow plowing the taxi way, much less the runway. Finally, the call was made to scrub the launch of LG-2 and we were instructed to stay airborne and assume LG-2. As the hours dragged on, we were getting tired, but we were warriors and could take it. However, our fuel supply was getting low and they launched a KC-135 from Altus AFB to give us enough fuel. We became the first Looking Glass, on post, to receive a refueling and transitioned into shift LG-2.

The remainder of LG-2 was uneventful, except we had eaten all the food, drank all the coffee, and were starting to run short on water. And yes (this was during the Dark Ages), we were running out of cigarettes. Offutt AFB was finally able to launch LG-3, a little early, and we landed at Barksdale AFB at 1740 (2340Z). While we remained over night, they flew another EC-135C to Barksdale AFB to replace ours as it had sheared a generator shaft. We, on 12 February 1965, launched at 0815 (1215Z) and flew the LG-2 mission. After an uneventful mission, we landed at Offutt AFB at 1635 (2235Z). Again, thank you, KC-135 crew from Altus AFB, who gave us fuel. Thank you *DR Ahead* for sparking old (and fond) memories.

Frederick A. Wassem, James Connally 62-15

NOTAM: DR AHEAD BY INTERNET

Still getting a hard copy of *DR Ahead*? Join the over three hundred members who have elected to receive *DR Ahead* via the internet, thereby helping to ensure the longevity of our association by saving **AFNOA** the postage and printing. Please e-mail to Jim Faulkner at jfaulkner39@suddenlink.net to switch.

NOTAM: EMERGENCY LIST:

One of our members has told us that if something should happen to him... he has left a listing of people to be contacted. Great planning! Suggest we all consider putting **AFNOA** on that listing.

LAST FLIGHTS

by Jim Faulkner, James Connally 64-04

Some people reporting MULTIPLE Last Flights were: Dale E. Everson, Harlingen 58-12; John Fradella, James Connally 66-17; and Bill Wilkins, Ellington 52-09.

Please send last flight notices on navigator/ observer/bombardier/EWO or combat system officers to AFNOA membership (jfaulkner39@suddenlink.net).

Please keep "Last Flight" families in your prayers. Listed below are the last flights reported this quarter.

Leopold DDS, Herbert S. San Diego

BIG SPRING

Leopoid DDS, Herbert S	s. San Diego	CA	44-04
CARLSBAD			
Mathews, Norman D.	Elizabeth	PA	44-46
Stewart Jr., William P.	Monroe	LA	44-46
Myers, Roger K.	Fort Wayne	IN	45-12
CORAL GABLES			
Ahl, William M.	San Mateo	CA	41-C
Busby, Joe N.	Alachua	FL	42-04
Gale, Paul R.	South Hero	VT	43-02
Martineau, Max L.	Sun City	AZ	43-04
Phillips, Samuel D.	Lake Worth	FL	43-06
Wayne, George H.	Calabasas	CA	43-06
Inglima, Peter K.	Melville	NY	44-02
Wisser, Eugene P.	Verona	PA	44-02
Best, Richard H.	Flushing	MI	44-06
Jannace, Manlio J.	Farmington	CT	44-06
Kasten, Nelson S.	Rockledge	FL	44-06
Pipek, Charles G.	Westmont	IL	44-06
Shwartz, Kalman S.	Montgomery	AL	44-06
Talley, James C.	Knoxville	TN	44-06
DEMING			
Friedman, Joel I.	Ventnor City	NJ	44-11
Wynne, Richard D.	Girard	PA	44-13
ELLINGTON			
Moore, James W.	San Antonio	TX	41-00
Murphy, Michael J.	Millis	MA	41-00
Atkins, Francis R.	Laguna Woods	CA	43-00
Bailey, Edward L.	Houston	TX	43-00
Blankenheim, Robert S.	Green Lake	WI	43-00
Handelman, Fred	Naples	FL	43-00
McCarthy, Daniel F.	Tempe	AZ	43-00
Conners, Edward B. Ri	chmond Heights	MO	43-13
MacLachlan, John D.	N. Hollywood	CA	43-18
Brill, Ben S.	Durham	NC	44-01
Telkamp, Edward A.	Lindale	TX	44-01
Wise, Milton B.	Slidell	LA	44-01
Mills, James D.	Charleston	WV	44-02

Thompson, Howard E.	Long Beach	CA	44-02	Wilkie, Edward J.	Ocala	FL	44-49
West, Albert C.	Ottawa	IL	44-02	Cantor, Paul G.	Atlantic Beach	NY	44-53
Blackstock, Ray C.	Freeland	WA	44-03	Eckart, Elmer E.	St. Paul	MN	44-53
Brugger, Lee B.	Cypress	CA	44-03	Haskins, Harold C.	Gainsville	FL	44-53
Farris, William P.	Cincinnati	ОН	44-03	Hollacher, Edward M.	Honolulu	HI	44-53
Haggland, James L.	Riverside	CA	44-03	Jewell, William L.	Woolwich	ME	44-53
Gordon, Franklyn	Brooklyn	NY	44-04	Olsen, Joseph J.	Vancouver	WA	44-53
Immasche, Robert L.	Houston	TX	44-04	Sessler, Leonhardt H.	Cary	NC	44-53
Kraft, Dr. Robert A.	Hillsborough	CA	44-05	Bezozo, Edward	New York	NY	45-04
Lieto Jr., Joseph J.	Brick	NJ	44-05	Goodwin Jr., Edwin J.	Telford	PA	45-04
Francis, Jack C.	Amory	MS	44-06	Benjamin, Manuel B.	Boca Raton	FL	45-04N
Peterson, Joseph A.	Omaha	NE	44-06	Bennett, John R.	Evansville	IN	45-04N
Walther, Henry R.	San Antonio	TX	44-06	Bogdanski, Walter R.	Middlesex	NJ	45-04N
Brown, George R.	Creamridge	NJ	44-07	Burnham, Charles S.	Alabaster	AL	45-04N
Gaffin, Morton	Peekskill	NY	44-07	Miscia, Henry	Harrisburg	PA	45-04N
Graverok, Robert V.	Bloomington	MN	44-07	Shepley, Warren W.	St. Paul	MN	45-04N
Jensen, Lloyd E.	Mesa	AZ	44-07	Bowman, Dr. Ben Phillip	San Carlos	CA	45-08
Almand, Richard H.	Atlanta	GA	44-08	Bonwit, Barry L.	Pensacola	FL	50-D
Martin, Donald E.	Portland	ME	44-08	Bjorgen, Leonard L.	Grand Prairie	TX	50-E
Napora, Frank S.	Phoenix	AZ	44-08	Burgess, George M.	Falls Church	VA	52-00
Taylor, Arthur C.	Kitty Hawk	NC	44-08	Bond, Louis E.	Fremont	CA	52-01
Dzenowagis, Joseph G	. Okemos	MI	44-09	Walker, William R.	Sugar Land	TX	52-09
Heist, Harold F.	San Diego	CA	44-09	McKay Jr., Hugh D.	Arlington	TX	52-24
Burkhart, Charles J.	Lexington	KY	44-11	Butler, Carroll B.	Shalimar	FL	54-00
Carter, Paul W.	Salisbury	NC	44-11	White, Max E.	Cullman	AL	54-00
Ciappa, Mario J.	Mount Pleasant	SC	44-11	Turner, Miles G.	Plano	TX	56-02
Hahn, Stanley L.	La Jolla	CA	44-11	HARLINGEN			
Irvin, Ralph M.	Beloit	WI	44-11	Roberts, James R.	Norton	VA	53-07
Yazak, Dean D.	Pensacola	FL	44-11	Chabolla, Gilbert A.	Los Banos	CA	53-10
Smith, Richard K.	Florence	OR	44-12	Conti, Alfred J.	Longwood	FL	53-14
Casper, Thomas L.	Martinsburg	WV	44-45	Allen, Fred R.	Auburn	WA	53-19
Cochran, Walter C.	Holiday	FL	44-45	Mertens, Robert E.	Melbourne	FL	53-19
Erdman, George F.	Tallahassee	FL	44-45	Quesenberry, Daniel J.	Winston Salem	NC	53-19
Thomasco, Francis F.	Lancaster	PA	44-45	Mills Jr., Byron E.	San Antonio	TX	54-09
Bennett, James G.	Orlando	FL	44-49	Dawson, Charles F.	Bellevue	WA	54-11
Dowidchuk, Paul J.	Allen	TX	44-49	Roberts III, Arthur	Vacaville	CA	55-16
Fisher, Billy B.	Brentwood	CA	44-49	Barsell Jr., John E.	Pshoa	HI	56-09
Glover, Louis S.	Silver Spring	MD	44-49	Bujak, Stanley S.	Kerrville	TX	56-09
McCoy, George R.	Chicago	IL	44-49	Carney, Robert W.	Palo Heights	IL	56-09
Mood Jr., John B.	Hendersonville		44-49	Daly, Gerald J.	Scottsdale	AZ	56-09
Port, Arnold R.	Cedar Rapids	IA	44-49	Felderman, Arthur L.	Bettendorf	IA	56-09
Sinnefia, Anthony G.	Foster	RI	44-49	Nale Jr., William L.	Forney	TX	56-09
Stratton, David E.	Westfield	NY	44-49	Takano, Robert I.	Honolulu	HI	57-04

Dedo, Richard G. Hillsborough Grand Rapids All Seads Seads Maloney, John F. Wawatosa WI 43-15 Viana, John Grand Rapids MI 58-12 Cloles, William J. Pittsfield MA 43-16 Mackin, William D. Ashland MI 58-12 Hering, Paul A. Port Charlotte FL 43-16 Miklos, George A. Derby KS 58-12 Hering, Alaul A. North Hills CA 43-16 Anderson, Roger L. Larimore ND 58-13 Brattle, Jack R. Toutom Houston TX 43-16 Anderson, Roger L. Bossier City LA 58-13 Brattle, Jack R. Toutom Houston OK 44-04 Hillgren, Victor D. Derby KS 58-13 Grove Jr., William S. Sandy Spring GA 44-04 Recicar, Steve A. Ashton MD 58-13 Grove Jr., William S. Sandy Spring GA 44-08 Yurkovich, Daniel T. Austin TX 59-13 Moore, Jr., William S. Sandy	Boepple, Wayne T.	Bellevue	NE	57-09	Boomhower, Milton A.	Spring Valley	CA	43-15
Erni, Walter A. Adrian A shland MB 58-12 bit Sher, Lauren A. Ortland OR Ashland 43-16 bit Mackin, William D. Ashland OR Sha12 bit Sher, Lauren A. Ortl Chardotte FL Station FL	Dedo, Richard G.	Hillsborough	CA	58-00	Maloney, John F.	Wauwatosa	WI	43-15
Makkin, William D. Ashland QR 58-12 bit Section Hering, Paul A. Port Charlotte FL 43-16 bit Section Miklos, George A. Derby KS 58-12 bit Section Kleinsth, Alfred A. Noth Hilligon 43-16 bit Section 44-04 bit Section 43-16 bit Section 43-16 bit Section 44-04 bit Section 44-06 bit Section 44-07 bit S	Viana, John	Grand Rapids	MI	58-03	Coles, William J.	Pittsfield	MA	43-16
Miklos, George A. Derby KS 58-12 bits Kleinrath, Alfred A. North Hills CA 43-16 bits Anderson, Roger L. Lammore ND 58-13 bits O'Donnell, James R. Houston TX 43-16 bits Bowman, Wilfred R. Bossier City LA 58-13 bits Bratile, Jack R. Tozona WA 44-04 bits Helling, Andrel K. William Story VA 58-13 bits Grove Jr., William S. Duston OH 44-06 bits Helling, Andrel K. Ashton MD 58-13 bits Grove Jr., William S. Sandy Springs GA 44-07 bits Robben, Vincent D. J. St. Louis MD 58-13 bits, Son, Dr., William S. Sandy Springs GB 44-07 bits Roben, Vincent D. J. Austin Typ City OH 58-13 bits, Son, Dr., William S. Sandy Springs GB A 44-07 bits, GB Yurkovich, Daniel T. Austin TX 59-13 bits, GB McGinnis, William S. Sandy Springs GB A 4-01 bits, GB Staver, Trank F. Austin Spring GB	Erni, Walter A.	Adrian	MI	58-12	Fisher, Lauren A.	Portland	OR	43-16
Anderson, Röger L. Larimore ND 58-13 O'Donnell, James R. Houston TX 43-16 Bowman, Wilfred R. Bossier City LA 58-13 Bratile, Jack R. Tacoma WA 44-00 Helms, Andrel K. Williamsburg VA 58-13 Bravis, Richard L. Dustin OK 44-04 Hilligren, Victor D. Derby KS 58-13 Johnston, Wilbur E. Dayton OH 44-06 Recicar, Steve A. Ashton MD 58-13 Grove Jr., William S. Sandy Springs GA 44-07 Robben, Vincent D. J. St. Louis MO 58-13 Dickison, Dr. William S. Sandy Springs GA 44-08 Stewant, William H. Tipp City OH 58-13 McGinnis, William B. Sandy Springs GA 44-09 Vurkovich, Daniel T. Austin XX 58-13 McGinsins, William B. Banding Hills GA 44-10 Stavary, Christopher C. Carlinville IL 59-02 More, Owner E. Cocoa Beac	Mackin, William D.	Ashland	OR	58-12	Hering, Paul A.	Port Charlotte	FL	43-16
Bowman, Wilfred R. Bossier City LA 58-13 Bratlie, Jack R. Tacoma MA 44-00 Hellms, Andrel K. Williamsburg VA 58-13 Reavis, Richard L. Dustin OK 44-04 44-06 Recicar, Steve A. Ashton MD 58-13 Grove Jr., William E. Dayton OH 44-06 Recicar, Steve A. Ashton MD 58-13 Grove Jr., William E. Rolling Hills CA 44-08 Reavis, Richard L. Dustin OH 44-06 Recicar, Steve A. Ashton MD 58-13 Grove Jr., William E. Rolling Hills CA 44-08 Recicar, William H. Tipp City OH 58-13 Dickison, Dr. William E. San Antonio TX 44-10 Mateer, Thomas D. Newport RI 59-02 Moore, Owen E. Cacoa Beach FL 44-10 Rater, Thomas D. Newport RI 59-02 Moore, Owen E. Cacoa Beach FL 44-10 Rater, Thomas D. Newport RI 59-05 Soles Roe, Norman E. Desert Hot Springs CA 44-08 Rater, Thomas D. Newport RI 59-05 Soles Roe, Norman E. Desert Hot Springs CA 44-08 Rater, Thomas D. Newport RI 59-05 Roe, Norman E. Desert Hot Springs CA 44-08 Rater, Thomas D. Newport Ri 59-05 Roe, Norman E. Desert Hot Springs CA 44-08 Rater, Thomas D. Newport Roberts School M. Lubbook TX 59-05 Soles Seen, Nicholas E. Hagerstown MD 52-04 Rater, Thomas D. Rater,	Miklos, George A.	Derby	KS	58-12	Kleinrath, Alfred A.	North Hills	CA	43-16
Hellms, Andrel K. Williamsburg VA 58-13 Reavis, Richard L. Dustin OK 44-04 Hillgren, Victor D. Derby KS 58-13 Johnston, Wilbur E. Dayton OH 44-06 Recicar, Steve A. Ashton MD 58-13 Grove Jr., William S. Sandy Springs GA 44-07 Robben, Vincent D. J. Stroub S. MD 58-13 Kingsbury, Derrell Sand Springs GA 44-08 Stewart, William H. Tipp City OH 58-13 Dickison, Dr. William E. Fairborn OH 44-09 Yurkovich, Daniel T. Austin TX 58-13 McGinnis, William E. San Antonio TX 44-10 Shaw Jr., Christopher C. Carlinville L 59-02 Moore, Ownen E. Cocoa Beach FL 44-10 Shaw Jr., Christopher C. Carlinville L 59-02 Moore, Ownen E. Dastant Christopher C. Carlinville L 59-02 Moore, Ownen E. Dastant Christopher C. Carlinville L 59-01 <td>Anderson, Roger L.</td> <td>Larimore</td> <td>ND</td> <td>58-13</td> <td>O'Donnell, James R.</td> <td>Houston</td> <td>TX</td> <td>43-16</td>	Anderson, Roger L.	Larimore	ND	58-13	O'Donnell, James R.	Houston	TX	43-16
Hillgren, Victor D. Derby KS 58-13 Grove Jr., William S. Sandy Springs GA 44-06 Recicar, Steve A. Ashton MD 58-13 Grove Jr., William S. Sandy Springs GA 44-07 Robben, Vincent D.J. St. Louis MO 58-13 Kingsbury, Derrell Rolling Hills CA 44-08 Stewart, William H. Tipp City OH 58-13 Dickison, Dr. William E. Fairborn OH 44-09 Advisor Cocoa Beach FL 44-10 Advisor Cocoa Beach FL	Bowman, Wilfred R.	Bossier City	LA	58-13	Bratlie, Jack R.	Tacoma	WA	44-00
Recicar, Steve A. Ashton MD 58-13 Grove Jr., William S. Sandy Springs GA 44-07 Robben, Vincent D. J. St. Louis MO 58-13 Kingsbury, Derrell Rolling Hills CA 44-08 Stewart, William H. Tipp City OH 58-13 Dickison, Dr. William E. Fairborn OH 44-09 Yurkovich, Daniel T. Austin TX 59-02 Moore, Owen E. Cocca Beach H 44-10 Shaw Jr., Christopher C. Carlinville IL 59-05 Roe, Norman E. Desert Hot Springs CA 44-10 Staples, Robert M. Charleston SC 59-15 Bedessem, Nicholas E. Hagerstown MD 52-04 Koberts, Ernest A. Bay Minete AL 59-17 Helf, Joe F. Kelseyville CA 52-07 Goins, Richard T. Olyress CA 60-13 Reinking, Robert G. Santa Rosa CA 52-07 Wall, Robert B. Oklahoma City K 60-13 Reinking, Robert G. Willi	Helms, Andrel K.	Williamsburg	VA	58-13	Reavis, Richard L.	Dustin	OK	44-04
Robben, Vincent D. J. St. Louis MO 58-13 Kingsbury, Derrell Rolling Hills CA 44-09 Yurkovich, Daniel T. Austin TX 58-13 Dickison, Dr. William R. San Antonio TX 44-10 Mateer, Thoman D. Newport RI 59-02 Moore, Owen E. Cocoa Beach FL 44-10 Shaw Jr., Christopher C. Carlinville IL 59-02 Moore, Owen E. Cocoa Beach FL 44-10 Stevenson Jr., Bonnie G. N. Chesterfield VA 59-15 JAMES CONNALLY TUB 25-04 45-04 45-04 45-04 45-04 45-04 45-04 45-04 45-04 45-04 45-04 45-04 45-04 44-10 44-	Hillgren, Victor D.	Derby	KS	58-13	Johnston, Wilbur E.	Dayton	ОН	44-06
Stewart, William H. Tipp City OH 58-13 Dickison, Dr. William R. Fairborn OH 44-09 Yurkovich, Daniel T. Austin TX 58-13 McGinnis, William R. San Antonio TX 44-10 Mateer, Thomas D. Newport RI 59-02 Moore, Owen E. Cocoa Beach FL 44-10 Shaw Jr., Christopher C. Carliville IL 59-08 Roe, Norman E. Desert Hot Springs CA 44-12 Stevenson Jr., Bonnie G. N. Chesterfield VA 59-15 JAMES CONNALLY Timely Jr., Frank F. Charleston SC 59-15 JAMES CONNALLY Staples, Robert M. Lubbock TX 59-17 Helf, Joe F. Kelseyville CA 52-04 Roberts, Ernest A. Bay Minette AL 59-21 Johnson, William E. Dallas TX 52-07 Robert B. Oklahoma City OK 60-13 Reinking, Robert G. Santa Rosa CA 52-07 Warren, Dorman M. Granbury TX 60-19 W	Recicar, Steve A.	Ashton	MD	58-13	Grove Jr., William S.	Sandy Springs	GA	44-07
Yurkovich, Daniel T. Austin TX 58-13 McGinnis, William R. San Antonio TX 44-10 Mateer, Thomas D. Newport RI 59-02 Moore, Owen E. Cocoa Beach FL 44-10 Shaw Jr., Christopher C. Carlinville IL 59-08 Roe, Norman E. Desert Hot Springs CA 44-12 Stevenson Jr., Bonnie G. N. Chesterfield VA 59-15 JAMES CONNALLY Desert Hot Springs CA 44-12 Tinley Jr., Frank F. Charleston SC 59-15 JAMES CONNALLY Elegerstown MD 52-04 Roberts, Ernest A. Bay Minette AL 59-21 Johnson, William R. Dallas TX 52-07 Goins, Richard T. Cypress CA 60-05 Lindeman, William B. Colorado Springs CO 52-07 Wairren, Dorman M. Granbury TX 60-13 Reinking, Robert G. Santa Rosa CA 52-07 Greenspan, Michael M. Houston TX 60-21 Butchin, Samuel B. Willington </td <td>Robben, Vincent D. J.</td> <td>St. Louis</td> <td>MO</td> <td>58-13</td> <td>Kingsbury, Derrell</td> <td>Rolling Hills</td> <td>CA</td> <td>44-08</td>	Robben, Vincent D. J.	St. Louis	MO	58-13	Kingsbury, Derrell	Rolling Hills	CA	44-08
Mateer, Thomas D. Newport RI 59-02 Moore, Owen E. Cocoa Beach FL 44-10 Shaw Jr., Christopher C. Carlinville IL 59-08 Roe, Norman E. Desert Hot Springs CA 44-12 Stevenson Jr., Bonnie G. N. Chesterfled VA 59-15 JAMES CONNALLY The property of the property	Stewart, William H.	Tipp City	ОН	58-13	Dickison, Dr. William E.	Fairborn	ОН	44-09
Shaw Jr., Christopher L. Carlinville IL 59-08 Roe, Norman E. Desert Hot Springs CA 44-12 Stevenson Jr., Bonnie G. N. Chesterfield VA 59-15 JAMES CONNALLY V 171 181 182	Yurkovich, Daniel T.	Austin	TX	58-13	McGinnis, William R.	San Antonio	TX	44-10
Stevenson Jr., Bonnie G. N. Chesterfield VA 59-15 JAMES CONNALLY Tinley Jr., Frank F. Charleston SC 59-15 Bedessem, Nicholas E. Hagerstown MD 52-04 Staples, Robert M. Lubbock TX 59-17 Helf, Joe F. Kelseyville CA 52-04 Roberts, Ernest A. Bay Minette AL 59-21 Johnson, William R. Dallas TX 52-07 Goins, Richard T. Cypress CA 60-05 Lindeman, William E. Colorado Springs Co. 52-07 Weil, Robert B. Oklahoma City OK 60-13 Reinking, Robert G. Santa Rosa CA 52-07 Warren, Dorman M. Granbury TX 60-19 Watkins, James A. Arlington TX 52-07 Warren, Dorman M. Houston TX 60-19 Watkins, James A. Arlington TX 52-07 Wallace, Jack T. Weslaco TX 61-01 Cockayne, William A. Willingboro NJ 54-05 Christison, Charles F. Ridgerest FL	Mateer, Thomas D.	Newport	RI	59-02	Moore, Owen E.	Cocoa Beach	FL	44-10
Timley Jr., Frank F. Charleston SC 59-15 Bedessem, Nicholas E. Hagerstown MD 52-04 Staples, Robert M. Lubbock TX 59-17 Helf, Joe F. Kelseyville CA 52-04 Roberts, Ernest A. Bay Minette AL 59-21 Johnson, William R. Dallas TX 52-07 Goins, Richard T. Cypress CA 60-05 Lindeman, William E. Colorado Spritter S. 52-07 Warren, Dorman M. Granbury TX 60-13 Reinking, Robert G. Santa Rosa CA 52-07 Warren, Dorman M. Granbury TX 60-19 Watkins, James A. Arlington TX 52-07 Greenspan, Michael M. Houston TX 60-21 Butchin, Samuel B. Willingboro NJ 54-05 Wallace, Jack T. Weslaco TX 61-01 Cockayne, William A. Moreno Valley CA 54-05 Christison, Charles F. Ridgecrest CA 61-13 Craner, Robert R. Washington NC 54-0	Shaw Jr., Christopher C	C. Carlinville	IL	59-08	Roe, Norman E. Des	sert Hot Springs	CA	44-12
Staples, Robert M. Lubbock TX 59-17 Helf, Joe F. Kelseyville CA 52-07 Roberts, Ernest A. Bay Minette AL 59-21 Johnson, William R. Dallas TX 52-07 Goins, Richard T. Cypress CA 60-05 Lindeman, William E. Colorado Spritys CO 52-07 Weil, Robert B. Oklahoma City OK 60-13 Reinking, Robert G. Santa Rosa CA 52-07 Warren, Dorman M. Granbury TX 60-19 Watkins, James A. Arlington TX 52-07 Greenspan, Michael M. Houston TX 60-21 Butchin, Samuel B. Willingboro NJ 54-05 Wallace, Jack T. Weslaco TX 61-01 Cockayne, William A. Moreno Valley CA 54-05 Christison, Charles F. Ridgecrest CA 61-13 Craner, Robert R. Washington DC 54-05 Champion, Laurence L. Viera FL 62-12 Dixon, Louie W. Hazelhurst MS	Stevenson Jr., Bonnie	G. N. Chesterfiel	d VA	59-15	JAMES CONNALLY			
Roberts, Ernest A. Bay Minette AL 59-21 Johnson, William R. Dallas TX 52-07 Goins, Richard T. Cypress CA 60-05 Lindeman, William E. Colorado Spritter S. 52-07 Weil, Robert B. Oklahoma City OK 60-13 Reinking, Robert G. Santa Rosa CA 52-07 Warren, Dorman M. Granbury TX 60-19 Watkins, James A. Arlington TX 52-07 Greenspan, Michael M. Houston TX 60-21 Butchin, Samuel B. Willingboro NJ 54-05 Wallace, Jack T. Weslaco TX 61-01 Cockayne, William A. Moreno Valley CA 54-05 Christison, Charles F. Ridgecrest CA 61-13 Craner, Robert R. Washington DC 54-05 Champion, Laurence L. Viera FL 62-12 Dixon, Louie W. Hazelhurst MS 54-05 Marcus, Donald R. Slidell LA 62-12 Chason, Lloyd R. William J. William S. W	Tinley Jr., Frank F.	Charleston	SC	59-15	Bedessem, Nicholas E.	Hagerstown	MD	52-04
Goins, Richard T. Cypress CA 60-05 Lindeman, William E. Colorado Spri∋s 52-07 Weil, Robert B. Oklahoma City OK 60-13 Reinking, Robert G. Santa Rosa CA 52-07 Warren, Dorman M. Granbury TX 60-19 Watkins, James A. Arlington TX 52-07 Greenspan, Michael M. Houston TX 60-21 Butchin, Samuel B. Willingboro NJ 54-05 Wallace, Jack T. Weslaco TX 61-01 Cockayne, William A. Moreno Valley CA 54-05 Christison, Charles F. Ridgecrest CA 61-13 Craner, Robert R. Washington DC 54-05 Champion, Laurence L. Viera FL 62-12 Dixon, Louie W. Hazelhurst MS 54-05 Marcus, Donald R. Slidell LA 62-12 Chason, Lloyd R. Wilmington NC 58-03 Slaughter, Jackie L. Montgomery AL 62-14 Moore Jr., Paul J. Monroe LA <	Staples, Robert M.	Lubbock	TX	59-17	Helf, Joe F.	Kelseyville	CA	52-04
Weil, Robert B. Oklahoma City OK 60-13 Reinking, Robert G. Santa Rosa CA 52-07 Warren, Dorman M. Granbury TX 60-19 Watkins, James A. Arlington TX 52-07 Greenspan, Michael M. Houston TX 60-21 Butchin, Samuel B. Willingboro NJ 54-05 Wallace, Jack T. Weslaco TX 61-01 Cockayne, William A. Moreno Valley CA 54-05 Christison, Charles F. Ridgecrest CA 61-13 Craner, Robert R. Washington DC 54-05 Champion, Laurence L. Viera FL 62-12 Dixon, Louie W. Hazelhurst MS 54-05 Marcus, Donald R. Slidell LA 62-12 Dixon, Louie W. Hazelhurst MS 54-05 Marcus, Donald R. Slidell LA 62-12 Chason, Lloyd R. Willmington NC 58-03 Slaughter, Jackie L. Montgomery AL 62-12 Moore Jr., Paul J. Monroe La	Roberts, Ernest A.	Bay Minette	AL	59-21	Johnson, William R.	Dallas	TX	52-07
Warren, Dorman M. Granbury TX 60-19 Watkins, James A. Arlington TX 52-07 Greenspan, Michael M. Houston TX 60-21 Butchin, Samuel B. Willingboro NJ 54-05 Wallace, Jack T. Weslaco TX 61-01 Cockayne, William A. Moreno Valley CA 54-05 Christison, Charles F. Ridgecrest CA 61-13 Craner, Robert R. Washington DC 54-05 Champion, Laurence L. Viera FL 62-12 Dixon, Louie W. Hazelhurst MS 54-05 Marcus, Donald R. Slidell LA 62-12 Chason, Lloyd R. Wilmington NC 58-03 Slaughter, Jackie L. Montgomery AL 62-14 Moore Jr., Paul J. Monroe LA 59-02 HONDO Berger Jr., George E. Brighton CO 41-00 Moore, Ernest F. Fairborn OH 60-15 Keely, Gerald J. Tacoma WA 41-00 Kierstead, Glenn E. Vacaville	Goins, Richard T.	Cypress	CA	60-05	Lindeman, William E.	Colorado Sprin	gs CO	52-07
Greenspan, Michael M. Houston TX 60-21 Butchin, Samuel B. Willingboro NJ 54-05 Wallace, Jack T. Weslaco TX 61-01 Cockayne, William A. Moreno Valley CA 54-05 Christison, Charles F. Ridgecrest CA 61-13 Craner, Robert R. Washington DC 54-05 Champion, Laurence L. Viera FL 62-12 Dixon, Louie W. Hazelhurst MS 54-05 Marcus, Donald R. Slidell LA 62-12 Chason, Lloyd R. Wilmington NC 58-03 Slaughter, Jackie L. Montgomery AL 62-14 Moore Jr., Paul J. Monroe LA 59-02 HONDO Valley, Gerald J. Tacoma WA 41-00 Moore, Ernest F. Fairborn OH 60-15 Keely, Gerald J. Tacoma WA 41-00 Kierstead, Glenn E. Vacaville CA 62-15 Nystom, Robert W. Glenview IL 41-00 Nelson, Gary M. Plano <td< td=""><td>Weil, Robert B.</td><td>Oklahoma City</td><td>OK</td><td>60-13</td><td>Reinking, Robert G.</td><td>Santa Rosa</td><td>CA</td><td>52-07</td></td<>	Weil, Robert B.	Oklahoma City	OK	60-13	Reinking, Robert G.	Santa Rosa	CA	52-07
Wallace, Jack T.WeslacoTX61-01Cockayne, William A.Moreno ValleyCA54-05Christison, Charles F.RidgecrestCA61-13Craner, Robert R.WashingtonDC54-05Champion, Laurence L.VieraFL62-12Dixon, Louie W.HazelhurstMS54-05Marcus, Donald R.SlidellLA62-12Chason, Lloyd R.WilmingtonNC58-03Slaughter, Jackie L.MontgomeryAL62-14Moore Jr., Paul J.MonroeLA59-02HONDOTacomaCO41-00Moore, Ernest F.FairbornOH60-15Keely, Gerald J.TacomaWA41-00Crawford, Dale H.TucsonAZ60-16McGuire, Cecil G.MobileAL41-00Kierstead, Glenn E.VacavilleCA62-15Nystom, Robert W.GlenviewIL41-00Nelson, Gary M.PlanoTX62-17Taylor, Chester W.GreenvilleSC41-00Dorr, John K.Fort Walton BeachFL63-06Homes, William E.Sun CityAZ42-16Eller, Richard A.PhoenixAZ63-16Shirey, Clair L.Eagle RiverAK42-16Pence, Thomas G.HoustonTX63-21Ford, William M.WestfieldNJ43-08Kohlmann, DennisCitrus HeightsCA64-07Thurston, Truman H.HerefordTX43-08Walton, George T.MunsonvilleNH64-09 <td>Warren, Dorman M.</td> <td>Granbury</td> <td>TX</td> <td>60-19</td> <td>Watkins, James A.</td> <td>Arlington</td> <td>TX</td> <td>52-07</td>	Warren, Dorman M.	Granbury	TX	60-19	Watkins, James A.	Arlington	TX	52-07
Christison, Charles F.RidgecrestCA61-13Craner, Robert R.WashingtonDC54-05Champion, Laurence L.VieraFL62-12Dixon, Louie W.HazelhurstMS54-05Marcus, Donald R.SlidellLA62-12Chason, Lloyd R.WilmingtonNC58-03Slaughter, Jackie L.MontgomeryAL62-14Moore Jr., Paul J.MonroeLA59-02HONDOAdams III, Jordan E.Jensen BeachFL59-08Berger Jr., George E.BrightonCO41-00Moore, Ernest F.FairbornOH60-15Keely, Gerald J.TacomaWA41-00Crawford, Dale H.TucsonAZ60-16McGuire, Cecil G.MobileAL41-00Kierstead, Glenn E.VacavilleCA62-15Nystom, Robert W.GlenviewIL41-00Nelson, Gary M.PlanoTX62-17Taylor, Chester W.GreenvilleSC41-00Dorr, John K.Fort Wilton BeachFL63-06Homes, William E.Sun CityAZ42-16Eller, Richard A.PhoenixAZ63-16Shirey, Clair L.Eagle RiverAK42-16Pence, Thomas G.HoustonTX63-21Ford, William M.WestfieldNJ43-08Kohlmann, DennisCitrus HeightsCA64-07Thurston, Truman H.HerefordTX43-09Callahan, Wayne B.AbingdonVA64-09Cleveland, Carleton A.<	Greenspan, Michael M.	Houston	TX	60-21	Butchin, Samuel B.	Willingboro	NJ	54-05
Champion, Laurence L. Viera FL 62-12 Dixon, Louie W. Hazelhurst MS 54-05 Marcus, Donald R. Slidell LA 62-12 Chason, Lloyd R. Wilmington NC 58-03 Slaughter, Jackie L. Montgomery AL 62-14 Moore Jr., Paul J. Monroe LA 59-02 HONDO Adams III, Jordan E. Jensen Beach FL 59-08 Berger Jr., George E. Brighton CO 41-00 Moore, Ernest F. Fairborn OH 60-15 Keely, Gerald J. Tacoma WA 41-00 Crawford, Dale H. Tucson AZ 60-16 McGuire, Cecil G. Mobile AL 41-00 Kierstead, Glenn E. Vacaville CA 62-15 Nystom, Robert W. Glenview IL 41-00 Nelson, Gary M. Plano TX 62-17 Taylor, Chester W. Greenville SC 41-00 Dorr, John K. Fort Walton Beach FL 63-06 Homes, William E. Sun City AZ 42-16 Eller, Richard A. Phoenix AZ 63-16 Shirey, Clair L. Eagle River AK 42-16 Pence, Thomas G. Houston TX 63-21 Ford, William M. Westfield NJ 43-08 Kohlmann, Dennis Citrus Heights CA 64-07 Thurston, Truman H. Hereford TX 43-08 Walton, George T. Munsonville NH 64-08 Cleveland, Carleton A. Naples FL 43-09 Callahan, Wayne B. Abingdon VA 64-09 Sanders, Boles M. Broadview Heights OH 43-09 Wells, Robert S. Boerne TX 65-03	Wallace, Jack T.	Weslaco	TX	61-01	Cockayne, William A.	Moreno Valley	CA	54-05
Marcus, Donald R.SlidellLA62-12Chason, Lloyd R.WilmingtonNC58-03Slaughter, Jackie L.MontgomeryAL62-14Moore Jr., Paul J.MonroeLA59-02HONDOAdams III, Jordan E.Jensen BeachFL59-08Berger Jr., George E.BrightonCO41-00Moore, Ernest F.FairbornOH60-15Keely, Gerald J.TacomaWA41-00Crawford, Dale H.TucsonAZ60-16McGuire, Cecil G.MobileAL41-00Kierstead, Glenn E.VacavilleCA62-15Nystom, Robert W.GlenviewIL41-00Nelson, Gary M.PlanoTX62-17Taylor, Chester W.GreenvilleSC41-00Dorr, John K.Fort Walton BeachFL63-06Homes, William E.Sun CityAZ42-16Eller, Richard A.PhoenixAZ63-16Shirey, Clair L.Eagle RiverAK42-16Pence, Thomas G.HoustonTX63-21Ford, William M.WestfieldNJ43-08Kohlmann, DennisCitrus HeightsCA64-07Thurston, Truman H.HerefordTX43-09Callahan, Wayne B.AbingdonVA64-09Lee, Reese C.FoleyAL43-09Keenum, Billy J.Lake CharlesLA64-09Sanders, Boles M.Broadview Heights OH43-09Wells, Robert S.BoerneTX65-03	Christison, Charles F.	Ridgecrest	CA	61-13	Craner, Robert R.	Washington	DC	54-05
Slaughter, Jackie L. Montgomery AL 62-14 Moore Jr., Paul J. Monroe LA 59-02 HONDO Berger Jr., George E. Brighton CO 41-00 Moore, Ernest F. Fairborn OH 60-15 Keely, Gerald J. Tacoma WA 41-00 Crawford, Dale H. Tucson AZ 60-16 McGuire, Cecil G. Mobile AL 41-00 Kierstead, Glenn E. Vacaville CA 62-15 Nystom, Robert W. Greenville SC 41-00 Dorr, John K. Fort Walton Beach FL 63-06 Homes, William E. Sun City AZ 42-16 Eller, Richard A. Phoenix AZ 63-16 Shirey, Clair L. Eagle River AK 42-16 Pence, Thomas G. Houston TX 63-21 Ford, William M. Westfield NJ 43-08 Kohlmann, Dennis Citrus Heights CA 64-07 Thurston, Truman H. Hereford TX 43-08 Walton, George T. Munsonville NH 64-08 Cleveland, Carleton A. Naples FL 43-09 Callahan, Wayne B. Abingdon VA 64-09 Lee, Reese C. Foley AL 43-09 Keenum, Billy J. Lake Charles LA 64-09 Sanders, Boles M. Broadview Heights OH 43-09 Wells, Robert S. Boerne TX 65-03	Champion, Laurence L	. Viera	FL	62-12	Dixon, Louie W.	Hazelhurst	MS	54-05
HONDO Berger Jr., George E. Brighton CO 41-00 Moore, Ernest F. Fairborn OH 60-15 Keely, Gerald J. Tacoma WA 41-00 Crawford, Dale H. Tucson AZ 60-16 McGuire, Cecil G. Mobile AL 41-00 Kierstead, Glenn E. Vacaville CA 62-15 Nystom, Robert W. Glenview IL 41-00 Nelson, Gary M. Plano TX 62-17 Taylor, Chester W. Greenville SC 41-00 Dorr, John K. Fort Walton Beach FL 63-06 Homes, William E. Sun City AZ 42-16 Eller, Richard A. Phoenix AZ 63-16 Shirey, Clair L. Eagle River AK 42-16 Pence, Thomas G. Houston TX 63-21 Ford, William M. Westfield NJ 43-08 Kohlmann, Dennis Citrus Heights CA 64-07 Thurston, Truman H. Hereford TX 43-08 Walton, George T. Munsonville NH 64-08 Cleveland, Carleton A. Naples FL 43-09 Callahan, Wayne B. Abingdon VA 64-09 Lee, Reese C. Foley AL 43-09 Keenum, Billy J. Lake Charles LA 64-09 Sanders, Boles M. Broadview Heights OH 43-09 Wells, Robert S. Boerne TX 65-03	Marcus, Donald R.	Slidell	LA	62-12	Chason, Lloyd R.	Wilmington	NC	58-03
Berger Jr., George E. Brighton CO 41-00 Moore, Ernest F. Fairborn OH 60-15 Keely, Gerald J. Tacoma WA 41-00 Crawford, Dale H. Tucson AZ 60-16 McGuire, Cecil G. Mobile AL 41-00 Kierstead, Glenn E. Vacaville CA 62-15 Nystom, Robert W. Glenview IL 41-00 Nelson, Gary M. Plano TX 62-17 Taylor, Chester W. Greenville SC 41-00 Dorr, John K. Fort Walton Beach FL 63-06 Homes, William E. Sun City AZ 42-16 Eller, Richard A. Phoenix AZ 63-16 Shirey, Clair L. Eagle River AK 42-16 Pence, Thomas G. Houston TX 63-21 Ford, William M. Westfield NJ 43-08 Kohlmann, Dennis Citrus Heights CA 64-07 Thurston, Truman H. Hereford TX 43-08 Walton, George T. Munsonville NH 64-08 Cleveland, Carleton A. Naples FL 43-09 Callahan, Wayne B. Abingdon VA 64-09 Lee, Reese C. Foley AL 43-09 Keenum, Billy J. Lake Charles LA 64-09 Sanders, Boles M. Broadview Heights OH 43-09 Wells, Robert S. Boerne TX 65-03	Slaughter, Jackie L.	Montgomery	AL	62-14	Moore Jr., Paul J.	Monroe	LA	59-02
Keely, Gerald J. Tacoma WA 41-00 Crawford, Dale H. Tucson AZ 60-16 McGuire, Cecil G. Mobile AL 41-00 Kierstead, Glenn E. Vacaville CA 62-15 Nystom, Robert W. Glenview IL 41-00 Nelson, Gary M. Plano TX 62-17 Taylor, Chester W. Greenville SC 41-00 Dorr, John K. Fort Walton Beach FL 63-06 Homes, William E. Sun City AZ 42-16 Eller, Richard A. Phoenix AZ 63-16 Shirey, Clair L. Eagle River AK 42-16 Pence, Thomas G. Houston TX 63-21 Ford, William M. Westfield NJ 43-08 Kohlmann, Dennis Citrus Heights CA 64-07 Thurston, Truman H. Hereford TX 43-08 Walton, George T. Munsonville NH 64-08 Cleveland, Carleton A. Naples FL 43-09 Callahan, Wayne B. Abingdon VA 64-09 Lee, Reese C. Foley AL 43-09 Keenum, Billy J. Lake Charles LA 64-09 Sanders, Boles M. Broadview Heights OH 43-09 Wells, Robert S. Boerne TX 65-03	HONDO				Adams III, Jordan E.	Jensen Beach	FL	59-08
McGuire, Cecil G. Mobile AL 41-00 Kierstead, Glenn E. Vacaville CA 62-15 Nystom, Robert W. Glenview IL 41-00 Nelson, Gary M. Plano TX 62-17 Taylor, Chester W. Greenville SC 41-00 Dorr, John K. Fort Walton Beach FL 63-06 Homes, William E. Sun City AZ 42-16 Eller, Richard A. Phoenix AZ 63-16 Shirey, Clair L. Eagle River AK 42-16 Pence, Thomas G. Houston TX 63-21 Ford, William M. Westfield NJ 43-08 Kohlmann, Dennis Citrus Heights CA 64-07 Thurston, Truman H. Hereford TX 43-08 Walton, George T. Munsonville NH 64-08 Cleveland, Carleton A. Naples FL 43-09 Callahan, Wayne B. Abingdon VA 64-09 Lee, Reese C. Foley AL 43-09 Keenum, Billy J. Lake Charles LA 64-09 Sanders, Boles M. Broadview Heights OH 43-09 Wells, Robert S. Boerne TX 65-03	Berger Jr., George E.	Brighton	CO	41-00	Moore, Ernest F.	Fairborn	ОН	60-15
Nystom, Robert W. Glenview IL 41-00 Nelson, Gary M. Plano TX 62-17 Taylor, Chester W. Greenville SC 41-00 Dorr, John K. Fort Walton Beach FL 63-06 Homes, William E. Sun City AZ 42-16 Eller, Richard A. Phoenix AZ 63-16 Shirey, Clair L. Eagle River AK 42-16 Pence, Thomas G. Houston TX 63-21 Ford, William M. Westfield NJ 43-08 Kohlmann, Dennis Citrus Heights CA 64-07 Thurston, Truman H. Hereford TX 43-08 Walton, George T. Munsonville NH 64-08 Cleveland, Carleton A. Naples FL 43-09 Callahan, Wayne B. Abingdon VA 64-09 Lee, Reese C. Foley AL 43-09 Keenum, Billy J. Lake Charles LA 64-09 Sanders, Boles M. Broadview Heights OH 43-09 Wells, Robert S. Boerne TX 65-03	Keely, Gerald J.	Tacoma	WA	41-00	Crawford, Dale H.	Tucson	AZ	60-16
Taylor, Chester W. Greenville SC 41-00 Dorr, John K. Fort Walton Beach FL 63-06 Homes, William E. Sun City AZ 42-16 Eller, Richard A. Phoenix AZ 63-16 Shirey, Clair L. Eagle River AK 42-16 Pence, Thomas G. Houston TX 63-21 Ford, William M. Westfield NJ 43-08 Kohlmann, Dennis Citrus Heights CA 64-07 Thurston, Truman H. Hereford TX 43-08 Walton, George T. Munsonville NH 64-08 Cleveland, Carleton A. Naples FL 43-09 Callahan, Wayne B. Abingdon VA 64-09 Lee, Reese C. Foley AL 43-09 Keenum, Billy J. Lake Charles LA 64-09 Sanders, Boles M. Broadview Heights OH 43-09 Wells, Robert S. Boerne TX 65-03	McGuire, Cecil G.	Mobile	AL	41-00	Kierstead, Glenn E.	Vacaville	CA	62-15
Homes, William E. Sun City AZ 42-16 Eller, Richard A. Phoenix AZ 63-16 Shirey, Clair L. Eagle River AK 42-16 Pence, Thomas G. Houston TX 63-21 Ford, William M. Westfield NJ 43-08 Kohlmann, Dennis Citrus Heights CA 64-07 Thurston, Truman H. Hereford TX 43-08 Walton, George T. Munsonville NH 64-08 Cleveland, Carleton A. Naples FL 43-09 Callahan, Wayne B. Abingdon VA 64-09 Lee, Reese C. Foley AL 43-09 Keenum, Billy J. Lake Charles LA 64-09 Sanders, Boles M. Broadview Heights OH 43-09 Wells, Robert S. Boerne TX 65-03	Nystom, Robert W.	Glenview	IL	41-00	Nelson, Gary M.	Plano	TX	62-17
Shirey, Clair L. Eagle River AK 42-16 Pence, Thomas G. Houston TX 63-21 Ford, William M. Westfield NJ 43-08 Kohlmann, Dennis Citrus Heights CA 64-07 Thurston, Truman H. Hereford TX 43-08 Walton, George T. Munsonville NH 64-08 Cleveland, Carleton A. Naples FL 43-09 Callahan, Wayne B. Abingdon VA 64-09 Lee, Reese C. Foley AL 43-09 Keenum, Billy J. Lake Charles LA 64-09 Sanders, Boles M. Broadview Heights OH 43-09 Wells, Robert S. Boerne TX 65-03	Taylor, Chester W.	Greenville	SC	41-00	Dorr, John K. Fort	Walton Beach	FL	63-06
Ford, William M. Westfield NJ 43-08 Kohlmann, Dennis Citrus Heights CA 64-07 Thurston, Truman H. Hereford TX 43-08 Walton, George T. Munsonville NH 64-08 Cleveland, Carleton A. Naples FL 43-09 Callahan, Wayne B. Abingdon VA 64-09 Lee, Reese C. Foley AL 43-09 Keenum, Billy J. Lake Charles LA 64-09 Sanders, Boles M. Broadview Heights OH 43-09 Wells, Robert S. Boerne TX 65-03	Homes, William E.	Sun City	AZ	42-16	Eller, Richard A.	Phoenix	AZ	63-16
Thurston, Truman H. Hereford TX 43-08 Walton, George T. Munsonville NH 64-08 Cleveland, Carleton A. Naples FL 43-09 Callahan, Wayne B. Abingdon VA 64-09 Lee, Reese C. Foley AL 43-09 Keenum, Billy J. Lake Charles LA 64-09 Sanders, Boles M. Broadview Heights OH 43-09 Wells, Robert S. Boerne TX 65-03	Shirey, Clair L.	Eagle River	AK	42-16	Pence, Thomas G.	Houston	TX	63-21
Cleveland, Carleton A. Naples FL 43-09 Callahan, Wayne B. Abingdon VA 64-09 Lee, Reese C. Foley AL 43-09 Keenum, Billy J. Lake Charles LA 64-09 Sanders, Boles M. Broadview Heights OH 43-09 Wells, Robert S. Boerne TX 65-03	Ford, William M.	Westfield	NJ	43-08	Kohlmann, Dennis	Citrus Heights	CA	64-07
Lee, Reese C.FoleyAL43-09Keenum, Billy J.Lake CharlesLA64-09Sanders, Boles M.Broadview Heights OH 43-09Wells, Robert S.BoerneTX65-03	Thurston, Truman H.	Hereford	TX	43-08	Walton, George T.	Munsonville	NH	64-08
Sanders, Boles M. Broadview Heights OH 43-09 Wells, Robert S. Boerne TX 65-03	Cleveland, Carleton A.	Naples	FL	43-09	Callahan, Wayne B.	Abingdon	VA	64-09
•	Lee, Reese C.	Foley	AL	43-09	Keenum, Billy J.	Lake Charles	LA	64-09
Hull, Howard L. Newport Coast CA 43-10 Barron, James M. York SC 65-13	Sanders, Boles M.	Broadview Hei	ghts OH	43-09	Wells, Robert S.	Boerne	TX	65-03
	Hull, Howard L.	Newport Coast	CA	43-10	Barron, James M.	York	SC	65-13

December 200 Bill E	0 1 - 1 1 -	TV	05.40	Clark Caarga H	Maaraayilla	INI	12 12
Dannheim, Billy E.	San Antonio	TX	65-13	Clark, George H.	Mooresville	IN MD	43-13 43-14
Higgins, Thomas A.	Columbia Falls		65-13	Bolino, August C.	Silver Spring Bakersfield	CA	43-14
Hynes, George K.	New Bern	NC	65-13	Johnston, Kenneth G.	Painted Post	NY	43-14
Karner, Howard R.	Coeur d'Alene	ID TV	65-14	Morse, Loren C.			
McCaslin, Patrick D.	Georgetown	TX	65-14	Nally, John P.	Casselberry	FL	43-14
Michaud, Edward J.	Oklahoma City		65-16	Noullet, William C.	Temple Hills	MD	43-14
Blackard, Jean P.	Haileyville	OK	65-18	Classick, James J.	Haddon Heights		43-15
Ropp, James W.	New Braunfels	TX	65-21	Curtis, Billy R.	Medford	OR	43-15
Coleman, Myron C.	Liberty	IN	66-17	Magee, George J.	Doylestown	PA	43-15
Lyon Jr., Lawrence M.	Cocoa Beach	FL	66-17	Randolph, Steven T.	Woodland Park		43-15
LOWRY				Brooks, Carlton	Springfield	ОН	43-16
Burke, Dracos D.	New Iberia	LA	41-03	Burnham, Ruel D.	Tampa	FL	43-16
MATHER				Champagne, Donald L.	Buffalo	NY	43-16
Scanlan, William J.	Rochester	NY	42-08	Miller, Robert H.	Watertown	WI	43-16
Briggs, Travis C.	Dennison	TX	43-05	Wrightsman, Clarence I	M. Derby	KS	43-16
Calenda, Anthoney V.	Elmhurst	NY	43-10	Moore, Charles L.	Naples	FL	44-01
Kraus, Leonard D.	Aliso Viejo	CA	43-16	Mudie, Charles R.	Croydon	PA	44-01
Warner, Walter E.	Arnold	MD	50-00	Beckman, Joseph F.	Cincinnati	OH	44-02
Ablett, Kenneth L.	Chesapeake	VA	52-24	Grace, John N.	Smithfield	VA	44-02
Cline, Richard R.	Richardson	TX	72-00	Zwierlein, Carl	Westlake	ОН	44-02
SELMAN				Eisenstock, James E.	South Hadley	MA	44-03
Parham, Hoyle W.	Nashville	TN	42-16	Fidrocki, Henry E.	Milton	MA	44-03
Doolan, Robert H.	Cincinnati	ОН	42-17	Gordon, James R.	Lombard	IL	44-03
Self, Robert O.	Redlands	CA	42-17	Johnson, Oliver D.	Winnisboro	LA	44-03
Fox, William H.	Columbus	IN	43-02	Stewart, Dean B.	Johns Island	SC	44-03
Burns, John R.	St Louis	MO	43-03	Weber, Robert R. Co	orona Del Mar	CA	44-03
Fedge, William R.	Norwalk	CT	43-03	Zelnicker Jr., Edwin A.	Mobile	AL	44-03
Stapleton, Carl W.	Greenville	SC	43-04	Clark, Everett A.	Bloomfield	CT	44-04
Conrad, Francis B.	New York	NY	43-05	Dooley, Jeremiah R.	Peoria	AZ	44-04
Durow, Alfred A.	Tucson	AZ	43-06	Huston, MGen John W.	Annapolis	MD	44-04
Tschirehart, Wilbur E.	Atlanta	GA	43-06	Muchnik, Jack L.	Media	PA	44-04
Slesinger, Robert L.	Boynton Beach	FL	43-08	Rowland, Donald G.	Woodbridge	CT	44-04
Blanchfield, Edward W.	•	CA	43-09	Benjamin, Alfred D.	Newton	MA	44-05
Cannon Sr., James E.	Monroe	LA	43-09	Hines Jr., Andrew H.	St Petersburg	FL	44-06
Eakin, William P.	Lake Charles	LA	43-09	Pohorilla, Michael J.	Berwyn	PA	44-06
Heller, Stephen M.	San Rafael	CA	43-09	Morris, Daniel M.	Great Neck	NY	44-07
Hintz, Lawrence G.	East Pointe	MI	43-09	Rudy, William J.	Ardsley	NY	44-07
Jones, Harrell R.	Charlotte	NC	43-09	Pischel, Carl S.	Fullerton	CA	44-08
Young, Dan A.	Ocala	FL	43-09	Ansel, Lawrence G.	New Orleans	LA	44-09
Taylor, Robert S.	Mesa	AZ	43-11	Anthony, Thomas P.	Haverhill	MA	44-09
Bennett, George A.	Boise	ID	43-12	Burk, William H.	Bella Vista	AR	44-09
Colon, Flores M.	Burke	VA	43-12	Connor, Joseph E.	Manchester	CT	44-09
Mears, Frank C.	Stockton	NJ	43-12	Craven, James W.	Evansville	TN	44-09
ivicais, i fallik C.	GIOCKIOII	INU	1 0-12	Ciavon, bannos vv.	- variovillo	114	++ 00

Evans, John A.	Santa Fe	NM	44-09	Thomas, Thomas L.	Wheaton	IL	43-14
Jones, Olie T.	Dayton	ОН	44-09	Crowder, Lucien G.	Grand Forks	ND	43-15
Pick, Fred M.	Lakeland	FL	44-09	Weeks, John M.	Batavia	IL	43-15
Caldwell, Charles A.	Amory	MS	44-10	Dowe Jr., Dan O.	Montgomery	AL	43-16
Chakarian, Ara M.	West Milford	NJ	44-10	Bahmeier, Carl E.	Edina	MN	43-17
Firestein, Abraham J. Z		VA	44-10	Nagorski Jr., Carl E.	Erie	PA	43-17
Goldberg, Nathaniel E.	Scarsdale	NY	44-10	O'Brien, Paul D.	Albuquerque	NM	43-17
•	Farmers Branch	TX	44-10	Sarfaty, David E.	Washington	DC	43-17
Albrecht, Arthur R.	Sun City	AZ	44-11	Smith, Victor D.	Moraga	CA	43-17
Clemmens, Robert L.	Baltimore	MD	44-11	Grubman, Harold	Fort Lee	NJ	43-18
Portin, John F.	Sea Isle City	NJ	44-11	Maurer, Roy G.	Kansas City	МО	43-18
Cribbs, Richard E.	Tucson	ΑZ	44-12	Weingand, Paul G.	Satellite Beach		43-18
Singler, Joseph V.	Flemington	NJ	44-12	Feeney, Francis P.	Brighton	MA	44-02
Varnedoe Jr., William V	· ·	AL	44-12	Craig, Robert T.	Fort Pierce	FL	44-03
Moldstad, David F.	Wooster	ОН	44-13	O'Donnell, Richard W.	Goodyear	ΑZ	44-03
Bekius, Joseph J.	Salem	VA	44-14		olorado Springs	CO	44-03
Ginder, William M.I.	Royal Oak	MD	44-14	Frankhouser, William L.		VA	44-05
Nye, George A.	Bradenton	FL	44-14	Heller, Lowell Q.	Murphysboro	IL	44-09
Wilcox, Glenn	Stratton	ME	44-14	Gudridge, Ernest A.	Fort Myers	FL	44-10
Boyle, James E.	Pinehurst	ID	44-15	Martin, William S.	Bayfield	СО	44-10
Combs, Clarence J.	Louisville	KY	44-15	Kaiser, Charles P.	Princess Anne	MD	44-12
Daiello, Cosimo D.	Fort Pierce	FL	44-15	TURNER			
Onyskin, Alexander J. k	C. Huntington	NY	44-15	Bishop, George P.	Mesa	ΑZ	42-06
Race, Dr. Dale L.	Elyria	ОН	44-15	UNKNOWN			
Rumsey, Donald G.	Lenexa	KS	44-15	Butler, Herbert I.	Camp Springs	MD	41-00
Waldmann, Rodney K.	Verona	WI	44-15	Hever, Albert A	rlington Heights	IL	41-00
Clontz, Charles B.	San Antonio	TX	45-03	Bittman, Hammond H.	Los Angeles	CA	42-00
Julian, Paul R.	Montross	VA	45-03	Connelly, Joseph W.	Beavercreek	ОН	42-00
Nuss, Robert P.	Issaquah	WA	45-03	Conners, Walter W.	Missouri City	TX	42-00
Bass, Franklin F.	West Lafayette	IN	45-03N	Bodager, Bill W.	Newton Square	PA	43-00
Feather, Byron D.	Bedford	IN	45-03N	Byrum, William H. L	ighthouse Point	FL	43-00
Miller, William A.	St Petersburg	FL	45-03N	Cecil, Charles W.	Tucson	AZ	43-00
Tschannen, Robert A.	Northfield	ОН	45-03N	Gould, Alfred A.	Lake Oswego	OR	43-00
Whipple, Burton P.	Arroyo Grande	CA	45-03N	Grassman, Alvin R.	Sarasota	FL	43-00
Andrews, Jack G.	Lake Lure	NC	45-07N	Bostic, Thomas W.	Richardson	TX	44-00
SAN MARCOS				Mabie, Christopher S.	Austin	TX	44-50
Wyks, John R.	Fenwick	DE	42-00	Geren, Robert R.	Fulton	AR	45-00
Meyer, Robert H.	West Islip	NY	43-09	Johnston, Harry R.	Davidson	NC	45-00
Sortomme, Warren D.	Oceanside	CA	43-09	Zastrow, Rev. John A.	Holdrege	NE	45-00
Combs, George F.	Mount Arlington	NJ	43-10	Dorsey Jr., Charles H.	Baltimore	MD	54-00
Schleusener, Dexter E.	Mentor	ОН	43-10	Feist, John W.	Maitland	FL	54-00
Velie, John J.	Bloomington	MN	43-12	Cummings, William J.	Tucson	AZ	56-00
Wettig, Carl O.	St Louis	МО	43-12	Malone, John David	Universal City	TX	56-15
				*	*****		

THE AIR FORCE NAVIGATORS OBSERVERS ASSOCIATION 4109 Timberlane Enid, OK 73703-2825

Change service requested

PRSRT STANDARD U.S. POSTAGE PAID PERMIT 182 FROM ZIP CODE 32548

THE AFNOA BOARD & OPERATING COMMITTEES

President Jimmie W. Hanes, Jr. 114 Royal Springs Lane Crawford, TX 76638-2772 254-848-5493

jhanes@hot.rr.com

1st Vice President, Membership, James Connally Affairs

James R. Faulkner 4109 Timberlane Enid, OK 73703-2825

580-242-0526 jfaulkner39@suddenlink.net

Secondary email: jfaulkner39@hotmail.com

2nd Vice President Brett A. Schriever

7 Woodlands Drive Enid, OK 73703-1564

580-540-4882 brett1939@yahoo.com

Secretary Donald L. Crusius 17030 Upper Bay Road Addison, TX 75001-5044

214-460-7681 don@csilogowear.com

Treasurer Leonard T. Melcher 103 Steel Valley Drive Boerne, TX 78006-7019

512-296-5209 c5nav@hotmail.com

Active Duty Member Major Kiersten Thompson

ktb1wso@gmail.com

Web Master for www.afnoa.org

Tim Duerson afnoaweb@cox.net

Immediate Past President John D. Bridges

242 Jamar Drive

Weatherford, TX 76088-2212

817-694-9811 comm2jdb2002@yahoo.com

Past President, Historian, Museum Committee

Ronald P. Barrett 1406 South Lexington Holden, MO 64040-1636

305-797-0745 ronaldpbarrett@yahoo.com

Distributor & Electronic Distributor, DR Ahead

Errol Hoberman 6441 Avenida De Galvez Navarre, FL 32566-8911

850-939-5231 afnoa.distributor@yahoo.com

Editor, DR Ahead

Susan M. Curran 6441 Avenida De Galvez Navarre, FL 32566-8911

850-939-5231 sue.curran@att.net

Chaplain

Robert G. Certain 5100 John D. Ryan Blvd, Apt 1801 San Antonio, TX 78245-3509

770-639-3313 rgcertain@icloud.com