

Orienteor

DEFENSE MAPPING AGENCY AEROSPACE CENTER

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China Trip Topic March 10 Meet



"The U.S./China MC&G Technology Exchange" will be the topic of a special presentation to the joint technical and professional society meeting scheduled at the Aerospace Center Dining Hall March 10.

Presenting the topic will be Lawrence Ayers, former Center Technical Director and current DMA Deputy Director for Programs, Production and Operations. Ayers was a member of the DMA group of executives that visited China last year.

The meeting is scheduled in the 2nd Street Dining Hall at 3:00 p.m. with a social hour followed by dinner and then program at 5:30 p.m.

Ticket sellers and additional information are contained on posters throughout the Center.

Societies sponsoring the joint meeting are the American Congress on Surveying and Mapping, (ACSM); the American Geophysical Union, (AGU); the American Society of Photogrammetry, (ASP); and the Institute of Navigation, (ION).

From a personal viewpoint

DMAAC/TAC - A Family Story

"This story may not be unique among DMAAC employees, but it is my story, and I would like to share it with the rest of my fellow employees." So began John Miller, a cartographer in the Scientific Data Department.

John entered federal service for the Aeronautical Chart and Information Center (ACIC), the Aerospace Center's predecessor, in June 1958. "For the first 18 years of this period I was much like any other ACIC employee; I had a job at the place that makes all the

at the 366th Tactical Fighter Squadron at Seymour Johnson Air Force Base in Goldsboro, North Carolina. While there he was able to receive an informal briefing on the daily activities of the typical tactical fighter squadron.

His tour began with a stop at the Operations Desk for his son-in-law to check out his next day's duty assignment. "The nerve center of the squadron headquarters is the operations desk," said John.

A short while later, he was able to sit-in on a briefing for the first afternoon mission, which was to be a low-level conventional strike on a

locate a target without the charts produced here at DMAAC as it would be for the average motorist to drive from St. Louis to Chicago without a road map or highway markings.

"The relationship between these two Defense Department agencies is that one cannot accomplish its mission without the product of the other. Simplistically stated, the Tactical Fighter Squadron cannot protect us and confront our enemies if we don't give them their road maps," said John.

A tour of the Life Support Room



"UP TO ITS NOSE IN SNOW" . . . was the common look on Aerospace Center parking lots during the first part of the month. Zero temperatures, -59 degree wind chill factors and eight inches of snow made the first two weeks of the month miserable, but then Mother Nature did a turn about with 60 and 70 degree "springtime" weather the middle of the month.

Good News

Temperatures Rising

Not only has the outside temperature been edging upward lately, but the inside temperature is on the rise too as the 65 degree restriction on thermostats was lifted last week.

The President ordered the temperature ceiling lifted, citing uncomfortable working conditions and excessive enforcement costs as determining factors.

The news was welcomed at the

Aerospace Center, particularly by employees in some of the outlying buildings where the wearing of several layers of clothing was not uncommon during the near zero temperature days the early part of the month.

Action was taken promptly at the Aerospace Center to raise the thermostats to the normal 68 degree winter settings.

AFA Mtg. Mar. 13

The Spirit of St. Louis Chapter of the Air Force Association will hold a general membership meeting Mar. 13. General Robert E. Huyser, Commander-in-Chief of the Military Airlift Command will be the guest speaker. General

Breckenridge King's Inn, beginning with social hour at 6:30 p.m., dinner at 7:30 p.m. followed by the program. The dinner will include Chicken Divan, potato, vegetable, salad, beverage and dessert. Cost of the event is \$10.00 per person.

at the place that makes all the U.S.A.F. maps/charts. For the last six years this job has become sort of a cause," said John, "because my son-in-law, Capt. Douglas Soval, is a U.S. Air Force navigator."

Now it was easier for John to see why his occupation went from just a job to a cause. "Instead of helping make charts for air crews I had never seen or met, I was now involved in making charts for a real live, very important person to me. I was able to talk to and observe how air crews were using the product I was helping to make," said John.

Recently he visited his daughter and son-in-law currently stationed

at Seymour Johnson AFB, N.C., for an afternoon mission, which was to be a low-level conventional strike on a practice target area. The mission would also include air to air refueling of the F-4s by a KC 135 tanker at 26,000 feet just east of Goldsboro, N.C. The F-4s would be armed with practice dummy bombs. Their route would be from the air base east to 26,000 feet, rendezvous with the tanker and proceed east to the target area.

The mission was charted on Operational Navigation Charts made at the Aerospace Center. From John's viewpoint, "The DMAAC charts serve the same purpose for the fighter squadrons as the road map does for the average motorist. It would be as impossible for the fighter crew to

A tour of the Life Support Room followed the briefing. All air crews store their life support equipment here. "There was really more equipment in the room than I could describe," said John, "but some was helmets, oxygen masks, G-suits, parachute harnesses, water survival suits, etc. Two NCOs in charge of the area showed me, in detail, all the equipment and how it was used," he said. All equipment used by the air crew cost approximately \$7,500 per man.

Later in the afternoon the first flight was ready so the air crews manned their aircraft. John and his son-in-law drove to the flight line to watch the F-4s taking off. According to John, "If you've never observed a squadron of F-4s taking off from 100 to 200 yards away, you couldn't possibly imagine the awesome power of these aircraft."

"I would have to say that while I was, and still am, amazed by the F-4, I am even more amazed by the men who fly them. They are a breed like no other I have been associated with. The mental and physical abilities of these young men can never even be imagined by the average American citizen. These young men are the front line of our defense and if hostilities were to break out anywhere in the world, these men would be in combat within hours. They all know this and are deadly serious about their mission, but go about it with a devil-may-care attitude that

will be the guest speaker. General Huyser is responsible for the performance of airlift during wartime, periods of crisis and peacetime exercises. He directs the management of all strategic and tactical airlift forces.

The meeting will be held at the

salad, beverage and dessert. Cost of the meal will be \$10.25 per person.

Due to the size of the faculty at King's Inn, reservations will be limited to an absolute maximum of 120 people, so please make reservations early.

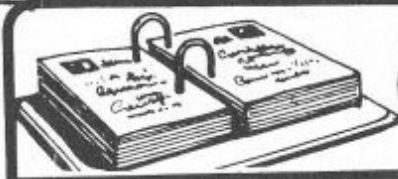
Presidential Interns Tour



Members of the Heart of America Cluster Group, Presidential Management Interns, listen to Ray Roach of the Graphic Arts Department discuss the plate process during their recent tour of the Aerospace Center. After viewing the multi-image Mission and Products presentation, their tour included briefings on the Lineal Input System, Automated Graphic Digitizing System and the Automated Type Placement System of the Aerospace Cartography Department. They also toured the camera and press rooms of the Graphic Arts Department. The group was accompanied by Cluster Leader, Doug Harvell and Resource Leader, John Nalbundian.



An F-4 takes off from Seymour Johnson AFB, N.C. after the crew planned their mission using Aerospace Center produced charts.



Calendar

MARCH 1981

MARCH	EVENT	WHERE	RESPONSIBILITY
3	JA Mtg.	GA Conf. Rm.	J. Hagedorn/4974
5	Toastmasters	Lindbergh Rm.	C. McVay/4454
10	FBA Meeting	Carpenter's Hall	D. Black/4142
10	JA Mtg.	GA Conf. Rm.	J. Hagedorn/4974
10	Joint Mtg.—	Dining Hall	J. Harris/4815
	ACSM, AGU, ASP, ION		
12	DMAAC Women's Club	Victoria Station	L. Swehla/631-5569
12	IMAGE Meeting	4604 Gravois	C. Athie/4276
12	Toastmasters	SD Conf. Rm.	C. McVay/4454
	Book Mtg.		
13	AFA Meeting	King's Inn	O. Blair/8372
17	JA Mtg.	GA Conf. Rm.	J. Hagedorn/4974
19	Arsenal '76 FEW Mtg.	Dining Hall	M. Gruenewald/4960
19	ION Meeting	Slays Restaurant	L. Rush/8431
19	Toastmasters	Lindbergh Rm.	C. McVay/4454
20	Bloodmobile	2nd Street	G. Olczak/4047
24	JA Mtg.	GA Conf. Rm.	J. Hagedorn/4974
26	Toastmasters	Lindbergh Rm.	C. McVay/4454
	Extra Mtg.		
31	NFFE Local 1827	Dining Hall	V. Haun/4044
31	JA Mtg.	GA Conf. Rm.	J. Hagedorn/4974

Contact Nancy Brannon/4142 to have your April events listed.

Understanding Mental Health Part III The Secret of Relaxation

Some further relaxation activities to think about:

1. Creative activities such as painting, drawing, pottery, carpentry, knitting, and even cooking for fun can give you a sense of accomplishment, as well as the peaceful relaxation of concentration on something you wish

and duties imposed on them by others, but it is equally important for them to meet the requirements for relaxation periods demanded by their own minds and bodies. Hard-working homemakers or busy executives must give themselves opportunities for relaxation if they are to maintain

In Sympathy

Word has been received of the Feb. 6 death of Robert R. Bard, former Center employee. Bard began work at the Aerospace Center in October of



February Retirements

NATHANIEL SMITH, FEMP, retired on Feb. 3. He had 30 years federal service, with 28 years, 7 months of that time spent at the Aerospace Center.

Smith entered the U.S. Army in 1944 at Jefferson Barracks and upon completing infantry training at Ft. Leavenworth, Kan., he went to Ft. Francis E. Warren, Wyo. He was assigned to the 3066 Quartermaster. He was discharged from service in 1945.

He returned to St. Louis to work for the International Shoe Company until July 1951 when he began work for the Army Record Center. In June 1952 he was transferred to the Aeronautical Chart and Information Center in the Illinois Terminal Bldg. He was assigned to the custodial service branch in July 1952.

When ACIC moved to 2nd Arsenal Sts., he was promoted to work leader, foreman and then in 1968 he was promoted to general

foreman over the custodial service branch, the position he held at retirement.

When asked his retirement plans he said, "I plan to remain in St. Louis and continue my pastoral work at Fountain Temple Church of God In Christ. I will also travel, do a little upholstering, plumbing, etc. Later for the old rocking chair. It has been a rewarding and pleasurable experience working with everyone at DMAAC."

PATRICIA J. BLACKWELL, GA, retired from the Aerospace Center on Feb. 25. She had 33 years, 5 months of federal service spending 30 years and 7 months at the Center.

She began her federal career as a clerk-typist in the General Accounting Office (GAO) in September 1947. In June of 1950 she came to the Center as a secretary in the Graphic Arts Department, the position she held at retirement.

30-Year Honors

LOUIS ABRAMOVITZ, GDGB, celebrated 30 years of federal service on Feb. 3.

He began his service in 1942 when he entered the Signal Corps Reserve as a radio and radar trainee. Upon completion of this phase of training, he entered active military service in 1943 and subsequently flew overseas with the 8th Air Force on a B-17 Flying-Fortress.

His career at the Aerospace Center began in June 1954 when he started work as a carto-photo-aid. He transferred to the Research Department in 1959 and is



Abramovitz



Byington

In the 1957 reorganization, he was transferred into the Cartography Division where he spent one year as a cartographic editor, and three years as a senior cartographer.

In September 1962, he transferred to the Carto Training

centration on something you wish to do.

2. Whether or not the above suggestions for relaxation work for you, a sure-fire method known down through the ages is the use of a warm bath to take away bodily stress and strain. You may choose to enhance this activity by reading a good book, listening to music, or even adding some bubbles if you like.

Practice Relaxation Daily

After discovering your favorite relaxation activity, plan to devote at least one-half hour per day to pursuing it. Most people accept the responsibility to meet deadlines

relaxation if they are to maintain their mental balance through stressful events and hectic schedules.

Making a Personal Commitment

The third and final principle in the art of relaxation is to enter into relaxation activities with enthusiasm and personal commitment. Let yourself become completely involved in the relaxation activity chosen; do not hold back physically or mentally.

Remember, finding effective techniques for personal relaxation is not merely a pastime for the idle rich. It is essential for everyone's physical and mental well-being.

Survey to Determine Reasons For Leaving

The Air Force has a new survey to determine why officers and enlisted service members voluntarily leave the service.

Separating officers and airmen will be given the opportunity to complete the survey by the separations unit at the base personnel office.

The survey is an expansion of a program begun in 1979 to determine why officers leave the Air Force.

Results of the 103-question survey will be used to support and modify retention efforts.

Officers and airmen will be asked to identify reasons they entered the Air Force, factors

contributing most to their remaining on active duty and how they feel about the frequency of PCS moves.

Nearly half of the survey deals with specific issues felt to contribute to decisions to separate. Respondents are asked to rate each issue as to whether it was a major, minor or noncontributor to their decision to leave the Air Force.

In addition to soliciting written comments, the survey offers the respondents the opportunity to discuss their reasons for separating with a counselor of their choice.

employee. Bard began work at the Aerospace Center in October of 1952, and retired in September 1972. He worked as a program manager in the Directorate of Plans and Requirements.

Bard and his wife, Ozra, had been residing in Rio Rancho Estates, New Mexico.

His death occurred while he was visiting in Springfield, Mo.

Word has been received of the Feb. 17 death of Mildred F. Jones, former Center employee. Jones had been at the Center 24 years, 9 months, and was a keypunch supervisor in CMDO at the time of her retirement in May of 1979.

She is survived by two daughters.

White Honored

Leroy E. White, visual information specialist in the Graphic Design Branch, SDRG, was recently awarded an Outstanding Achievement Award at the 13th Annual Afro-American Arts Festival sponsored by the Zeta Sigma Chapter of Sigma Gamma Rho Sorority, Inc.

White received the award for his art work displays at the festival, for distinctive service during 1980, and for 11 years of service. White created the Black History Display that was exhibited in the first floor corridor of Building 36 during the month of February.

He transferred to the Research Department in 1959 and is presently a geodesist in the Geopositional Department.

RUSSELL I. BYINGTON, SD-DT, completed 30 years of federal service Feb. 27.

He began his military service during World War II as a distant early warning radar repairman with the 12th Air Force, Italy, 2nd Radar Installation and Maintenance Unit.

He came to the Aerospace Center in March 1954 and was trained in photogrammetry school, and on completion of school was assigned to the control points unit of radial triangulation section. He moved to the Tip and Tilt Analysis Unit in late 1954, and then a year later into the paper templet assembly.

Time Marches On

The "Leap Second" which was missed last New Year's has not been lost. The U.S. Naval Observatory announced Feb. 3 that a "Leap Second" will be added to atomic clocks at midnight, Jun. 30, 1981, making that day one second longer.

The "Leap Second" is introduced by those organizations that operate very precise atomic clocks. These provide exact time to users such as television and communication stations. Because atomic time is relatively invariable and the earth's rotation is slowing down, the lengths of the atomic and solar days must be brought into synchronization. Coordination for this evolution is carried out by the

In September 1962, he transferred to the Carto Training School where he was assigned to train new personnel in photography, stereoscopy, photo interpretation, radar principles, infrared sensing devices and other computer-related courses. In 1966 he was assigned to the IDHS/CDHS Data Base Development in association with the Planning Research Corp. where he was involved with developing the Automated Map Information File Data Base.

In September 1978 he went to the production office of the Scientific Data Department and then in January 1979 to the techniques office of that department, where he now works as a cartographer/senior analyst.

International Bureau of Time, to which the U.S. Naval Observatory is the greatest single contributor.

The normal rate over the past few years has been on the order of a second per twelve months. The present rate shows this second being spread out now over sixteen months. Traditionally, "Leap Seconds" are inserted in June or December. While the mechanics of slowing are not yet fully understood, geophysicists attribute the greatest cause to be from the friction of tidal currents across shallow sea bottoms. The earth has slowed down to the extent that a present day's length is about one hour longer than one occurring in the age of the dinosaurs.

Alexander Receives AFCM



Col. Jean J. Merz, Jr., Director of Personnel for the Missouri Air National Guard, (right), presents CMSgt. Eric W. Alexander with the citation to accompany his Air Force Commendation Medal. Sergeant Alexander was presented the medal for his service as Senior Enlisted Advisor, Hq Missouri Air National Guard, from January 1979 to January 1981. The citation read, in part, "Sergeant Alexander's outstanding professional skill, knowledge, and leadership aided immeasurably in identifying problem areas affecting the enlisted force. Through his untiring efforts he was instrumental in opening new avenues of communication between airmen and their commanders." Alexander, also a civilian employee of the Aerospace Center, works in the Precision Photographic Division of the Scientific Data Department.

January Promotions

The following people received promotions during the month of January: Stanley L. Allen, GS-11; William J. Bartels, GS-11; Beverlee K. Bollinger, GS-11; Imogene P. Bowman, GS-11; Robert Earle Brown, GS-11; Larry O. Bussmann, GS-11; Thomas O. Christoffel, GS-12; Nicholas J. Congemi, Jr., GS-11; Louise H. Corcoran, GS-6; Clyde W. Creel, WP-21; Janet J. Dalton, GS-11; Andrea M. Dierkes, GS-7; David L. Douglas, GS-11; John F. Dunne, GS-11; Mary G. Engram, GS-9; Mark J. Fahey, GS-11; Mary Beth Farrar, GS-11; Donna E. Fonville, WG-7; Edward L. Funk, GS-11; Harold L. Gill, GS-11; David N. Gillett, GS-11; Singleton L. Harris, WP-21; Neil D. Healey, GS-11; Norma L. Hilgemeyer, GS-11; Donald G. Hite, Jr., GS-11; Garry L. Holmes, GS-12; Richard H. Johnson, GS-11; Hamlet A. Kelley, GS-12; John M. Kerins, GS-11; David W. Klinge, GS-11; Ann L. Konecnik, GS-7; Margaret A. Legree, GS-11; Jana K. Lindstrom, GS-11; Everett R. Maddox, GS-11; Jane A. Messenger, GS-11; Linda L. Miles, GS-5; Mary F. Miller, GS-11; Lori R. Montgomery, GS-5; Glenn S. Morgan, GS-11; Donald E. Mumm, GS-11; James M. Murray, GS-11; Ronald M. Muse, GS-11; Timothy M. Nagy, GS-11; Marc A. Ofstedal, GS-11; James T. Olson, GS-11; Mark D. Pepmeier, GS-11; John L. Perrone, GS-11; Ralph R. Peterson, WP-33; Mary F. Pollack, GS-7; Earl B. Reed, WP-10; Nancy J. Rieser, WG-5; Roger D. Roam, WP-10; Elaine M. Schlueter, GS-11; Joseph C. Shaughnessy, WG-4; Anna Mary Siegfried, GS-11; Barbara A. Speiser, GS-11; Joseph J. Springli, GS-11; David T. Stein, GS-11; Emelita D. Steate, GS-11;

Officer Arrival



Bits And Pieces

From the Black Book:

The mid-February warm weather that we've been enjoying brings back memories of my growing years in South Texas. It

How Would You Like To Work For You?

by SMSgt. Andrew
Barksdale AFB, La.

How would you like to be your own boss?

Sound great? I think everyone dreams of that at one time or another.

But how would you like to work for you? Are you the type of leader you would like to work for? If not, chances are your subordinates don't feel that way either.

All supervisors have been exposed to the qualities or attributes desirable for effective leadership. Some, however, have not progressed past the exposed stage.

The effective leader continues to cultivate, develop and grow. The leader seeks out more knowledge and applies it in the everyday working environment.

Here are some things your subordinates may be saying about you if you are an effective leader.

My supervisor:

- Always takes the time to explain what is required.
- Shows me how to do the job.
- Corrects my mistakes and shows me how to prevent them.
- Listens and considers my suggestions for improvements.
- Explains why, if my suggestions won't work.
- Always listens to my problems and helps me solve them.
- Knows me and my family.
- Knows where I and how I live.
- Asks for my suggestions when a change is anticipated.
- Always sets the example in word and deed.
- Tells me when I have done a job well.
- Keeps me informed.

Haven't you said some of these things about supervisors you have worked for?

On the other hand, if you are not a very good leader, your subordinates are very likely putting the word "doesn't" in front of those statements.

To help develop those qualities of leadership, you should apply some empathy in each of your actions. Ask yourself how you would react if you were in the subordinate role vs. the supervisor role. If you already do this, you are very likely the type of leader you would like to work for. More important, you're the type your subordinates like working for.

growing years in South Texas. It was this time of year when the cotton seedlings were beginning to nose their way through the earth's crust and "we farmers" (as we like to be called) set the cultivators and started the war against weeds. I don't know whether we owe the pleasant weather to Mt. St. Helen's eruption or what, but it's appreciated never-the-less.

-O-

Things have been rather hectic, to say the least, around the Public Affairs Office these past few weeks since our secretary departed on maternity leave. (She had a girl.) Because of the hiring freeze and other factors out of our control, we haven't been able to fill the position and things have really piled up. We've been using another office's part-time employee, part-time, for a couple of hours a day, and while she works like the dickens, there's no catching up. All this verbage is designed to warn the next person that is selected for the position that the filing backlog may take you into summer, that is if you can figure out which copy of what goes with which original, etc.

dlb . .

Frozen pipes? Don't try to thaw them with a blow torch or other open flame. Use hot water or a UL labeled device for thawing; otherwise a fire could be the result.



Air Force Major William B. Harber, Jr. reported for duty at the Aerospace Center as the air operation staff officer in the Flight Information Branch of the Directorate of Plans and Requirements.

Major Harber comes to the Center from the Armed Forces Staff College in Norfolk, Va. He holds a BS degree in business administration, management from the University of Georgia, and a MS degree in public administration, management from Golden Gate University, Calif.

Major Harber has been a member of the Air Force for 13 years, including a 12 month tour of Thailand, Laos and Vietnam. He has an aero rating of senior pilot.

He is a native of Georgia, is married and has two sons.

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DoD Exempt From Hiring Freeze

The Department of Defense has been exempted from the recently imposed Federal hiring freeze, according to information received from Washington, D.C. at presstime.

Since January 20th all Federal agencies had been under a hiring freeze imposed by Executive Order; the first order issued by the new president after his inauguration.

Is there a fire hydrant outside your house? If there should be a fire, firefighters need to be able to hook their hose up to that hydrant in a hurry. Shovel the snow away from the hydrant while you are clearing your driveway, walk, steps, or porch. It may save your home, or that of your neighbors.

DMAAC/TAC-Family Story

continued from Pg. 1

would make the average person think he was doing nothing more than going to an office job. One just innately gets the feeling that they also know that awful destructive power at their fingertips, but because most of them are family men with children of their own they choose not to think of this aspect of their jobs," said John.

"My own personal opinion is that I am extremely grateful to all the

young men who go up into the air to protect me, my family and my country. My admiration and thanks to them will be unending and my prayers and amazement will go with them every time I can see a contrail in the sky or hear a jet engine.

"And it makes me all the more aware of how important a role we here at the Aerospace Center play in helping them complete their mission safely," said John.



John Miller's son-in-law, Capt. Douglas Soval (right), and fellow navigator plan a mission on Center produced Operational Navigation Charts.

Junior Achievement Advising-- "What's It All About?"

by Walter Fisher, SDDS

Since August 1980, it has been an experience for Johnetta Lowe (CDIAD) and Maurice Williams, Jr. (SDDSC) to serve as Aerospace Center advisors for the Junior Achievement program. They said that both the enthusiasm of the achievers and the dedication of the advisor were motivating and inspiring.

Lowe thinks JA advising is teaching high school students the principles of the American free enterprise system by helping them

run their own small business. At the start of the program, the student members, under the guidance of adult volunteers called advisors, form into groups of approximately 24 each. Each group subsequently functions as a small business, meeting one night a week for two hours in order to sell stock to capitalize; elect officers; choose a product to manufacture or a service to offer; keep books and map out marketing plans; pay salaries, rent; produce, promote

and sell their company's product or service; publish annual reports; and return dividends to stockholders. It is a continuing effort to make economic education available to teenage groups. Advising is sharing knowledge and experience with the youth of today.

Williams thinks advising is the liaison between the achiever, the Center manager, and local Junior Achievement headquarters. He must serve as the direct source for interpreting the JA program to his groups as it emanates from local headquarters. Attending meetings and programs arranged by local headquarters will help the advisor keep abreast with new developments of the JA program. In JA companies, young adults discover what they enjoy most about being in business, keeping books, selling, developing new products, personnel work and this knowledge helps them in their later choice of a career. Even those who don't make a career in business will still become better educated citizens and consumers because of their JA experience.

Lowe and Williams both agree that being an advisor for the JA program helps remove the following statement: The teenager is a much maligned and misunderstood person in our civilization; some think of him as irresponsible and most unstable. Actually, the teenager is motivated by the same desires and wants as the adult. The teenager wants to feel important, secure, pride in his group. They also want a basic orderliness and discipline in their lives and want to

JA Leader



Col. John S. McKenney, Deputy Director of the Aerospace Center, presents Karen P. Washington, president of M&M (a Junior Achievement company sponsored by the Center), with a leadership award, as Walter H. Fisher, Aerospace Center coordinating advisor for JA looks on. Karan earned the award while attending the annual Junior Achievers Midwest Conference



Men's Basketball

On Feb. 5 Sam Scarse's 19 points and Thurmers excellent defense upset the previously undefeated Fast-Breaks, 52-40. After a close first-half, Thurmers broke open the game with their deliberate slow-down game as Dave Starkey and Don Tuttle scored 11 and 8 points respectively. Art Bennett scored 17 points for the Fast-Breaks.

On Feb. 9, the Gorillas assured themselves of a tournament berth as they defeated Mike & Min's 42-40. Bill Small hit for 18 points for the Gorillas while Chuck Arns scored 18 points for Mike & Min's.

Thurmer's continued their excellent play as they defeated the Rookies in a close game 38-34. Dave Starkey led Thurmers in rebounds and scored 15 points. John Wagner led an even-balanced Rookies' scoring attack with 8 points.

On Feb. 18, Joe Wilson's 21 points led Tom & Jerry's to an easy 68-33 victory over the Gorillas. Excellent defense by Rob Goodrich and Greg Kaszuba set the pace for the game. Bill Small scored 9 points for the losers.

A full-court press by the Hollywoods outlasted the Bruins as the Hollywoods defeated the Bruins, 64-38. Hollywood's, Alan Kerkemeyer hit for 18 points and Robert Bryan and Willie Pearson scored 11 points each. Steve Laughlin led the Bruins with 13 points.

Lee Fuqua scored 19 of his 23 points in the first-half, enabling the first-place Fast-Breaks to build up a lead against the Rookies in a 65-50 win. Art Bennett and Robert Bradley contributed 17 and 13 points respectively for the winners. Mark Oswald scored 21 points for the Rookies.

—Chuck Arns

Standings Through Feb. 18

TEAM	WON	LOST
Fast-Breaks	12	1
Thurmers	11	2
Tom & Jerry's	10	3
Hollywoods	9	4
M.G. Bummers	8	4
Bruins	6	7
Rookies	4	10
Gorillas	4	10
Mike & Min's	1	12
Minutemen	0	12

GAMES POINTS AVG PER GAME

Lee Fuqua - Fast-Breaks	12	295	24.6
Alan Kerkemeyer - Hollywoods	12	192	16.0
Robert Bradley - Fast-Breaks	12	192	15.2
Dave Starkey - Thurmers	12	179	14.9
Mike Kuhnline - Gorillas	13	190	14.6
Art Bennett - Fast-Breaks	13	181	13.9
Brian Sikes - Minutemen	12	161	13.4
Stan Allen - Bruins	13	172	13.2
Brian Lewis - Bruins	9	110	12.1
Joe Wilson - Tom & Jerry's	12	157	13.1

while attending the annual Junior Achievers Midwest Conference during December. She also received a scholarship from the Danforth Foundation for leadership in school and community. Karan is a senior at Normandy High School and an active member of the Future Business Leaders of America, INROADS (a pre-collegiate program at Washington University), the Student Council and the senior Activity Club.

1982 Budget Sent to Congress

The fiscal 1982 defense budget totaling \$196.4 billion, \$25 billion more than last year, has been forwarded to Congress. If approved, it will take effect Oct. 1.

Nearly one-third, or 159.8 billion, is for the Air Force. Research, development, testing and evaluation; operations and maintenance; missile procurement; and military construction are the big gainers.

In real terms, RDT&E gets \$8.6 billion, up from \$7.3 billion in 1981 (constant fiscal 1982 dollars). The M-X missile accounts for most of the increase. The C-X transport and the satellite control facility also receive large increases.

Operations and maintenance, the single largest component of the Air Force budget, is slated to get \$19.1 billion, up 8 percent from 1981. The 1982 budget reverses the trend of the 1970s when O&M growth slowed. Tactical flying hour programs and undergraduate flight training should increase.

Missile procurement increased 25 percent in real terms to \$4.2 billion, largely because of more buys of air-to-air and ground-to-air missiles, as well as heavier investments in space and other programs. With allotments of \$927.2 million, the various cruise-missile systems get the lion's share of the missile budget.

Military construction will be up 111 percent to \$2.2 billion in real terms. Most of the increase goes to the M-X missile and the Rapid Deployment Joint Task Force. Fiscal 1982 is the first year for building M-X facilities.

Other Air Force budget highlights include adapting the B-52 Stratofortress to carry air-launched cruise missiles, modifying the C-5 Galaxy's wings to extend the aircraft's life, fully equipping the 26 fighter/attack wings in the active force, and adapting the F-16 Fighting Falcon to night defense/attack capability.

also want a basic orderliness and discipline in their lives and want to share responsibility, want a challenge and want to achieve.

This can only be done by the advisors, as they must make certain the company members are informed. Advisors are the key to successful Junior Achievement.

Patrolman of Month



Phillip Martin has been selected as Security Policeman for the month of January. This is the fourth time Martin has held this honor since he began working at the Aerospace Center a little over three years ago.

According to security officials, "Martin's alertness led to early observation of water leaking through the ceiling in the CDT office 5th floor and CM office 6th floor of Building 36, keeping damage to materials and area at a minimum.

Brian Lewis - Bruins
Joe Wilson - Tom & Jerry's

9 110 12.1
13 157 12.1

Co-ed Volleyball Standings

Standings Through Feb. 24

Division A	Won	Lost	Division B	Won	Lost
Knetknockers	43	3	Good, Bad & Ugly	39	9
Leftovers	37	11	Mickey's Tavern	34	14
12 Paks	32	16	The Volley of the Balls	34	14
Out to Lunch Bunch	28	20	Sugar Daddies	29	19
Baker's Dozen	28	20	Chinese Sandpeople	28	20
Serving Line	27	21	Golden Spikers	23	25
High Ballers	16	32	Uneven Odds	20	28
Ziegfield's Volleys	15	33	Network	17	31
Lynch Mob	15	33	Up For Grabs	17	31
VO Volleyers	11	37	Mack Attack	14	34
Renegades	8	40	Chivas Regals	12	36

Sports & Rec News

The Aerospace Center Sports & Recreation Council is sponsoring a St. Pat's Dance on Saturday, Mar. 14, from 8 p.m. until midnight at the Second Street Dining Hall. Irish music from 7 p.m. until 8 p.m. will begin the evening, followed by dancing to the music of the "Gold Rush" band.

Ticket price is \$5.00 per person in advance and \$5.25 at the door. Ticket price includes beer, set-ups, snacks and music, and may be purchased at Second Street from Chuck Arns - 4901; Carol Greco - 4676, Noble Ladd - 4778; Kate Doyle - 4425; Roger Mitchell - 4425; Jim

Palmer - 4125; Claire Block - 4427; and Terri Kramer - 4544. South Annex employees may purchase their tickets from Paulette Martin - 8309, and Cacheeta Mack - 8219.

Anyone interested in additional softball games for men and women teams—the Granite City Army Depot has extended an invitation for Aerospace Center men and women softball teams to participate in their softball league on Monday, Tuesday and Thursday nights in Granite City. For more information, call Chuck Arns, ext. 4901.