

New Energy Monitoring System Being Installed At Aerospace Center

A new Energy Monitoring and Control System is now being installed in Building 36 at Second Street that will allow for complete control of all heating and air handling systems in the building from one central control point.

The system uses a new type of computer based equipment designed to reduce the quantities of energy used to condition buildings. The system is custom tailored to the needs of the Aerospace Center and is geared to eventually be used in all buildings on the installation.

The system is operational in Building 18 and by the end of 1979 will be completed in B, C and D areas of Building 36. The completion of the system will allow for temperature control by the remote central unit of all areas.

Customization of the system to the Aerospace Center needs was a challenge due to the variety of different structures involved, ranging from historically designated stone buildings to buildings of modern construction only a year old. System functions will include the complete control and automation of over fifty pieces of heating and air conditioning equipment and will allow all operation and adjustment of this equipment from a single control console (see photo).

One operator will be able to tell exactly how all the

mechanical equipment in the entire complex is operating and can spot equipment failure or waste of energy with the automatic assistance of the computer.

The Energy Monitoring and Control System will determine the time at which equipment must start each shift in order to warm up or cool down the occupied space, as well as selecting from several available heating and cooling sources the one most energy efficient for use at the time.

The system will automatically control two complete air conditioning plants which can provide over 2,000 tons of refrigeration to the complex.

According to Facilities Engineering spokesman, it is anticipated that energy usage at the Center can be reduced by 15 to 25% through the use of the new system. The system includes historical data programs to record and store records on energy consumption and track the system's effectiveness.

The new system, when completed, will sample data from hundreds of sensors in the buildings and through mathematical comparisons of the alternatives available, generate command outputs to minimize the use of energy while still maintaining acceptable conditions within each area of the complex.

New Phone System: Number Change April 7th

Communications representatives indicate that the new telephone system for the St. Louis military agencies will be operational on the 7th of April. For the Aerospace Center that means a new dialing prefix and change in the Autovon code.

Although the Center is switching to touch tone, not all the new phones will be installed by the switch over date but this will not affect the operation. Those having touch tone instruments can use them and those having standard dial instruments can continue to use them without problems.

The key to the success of the change over is to make sure that potential callers know the new numbers. For both 2nd and Arsenal and South Annex the prefix will be 263-xxxx and the Autovon will be 693-xxxx.

According to system planners the 2nd Street numbers (last four digits) will not change but there will be numerous changes in the numbers at 8900. The South Annex will still be controlled through a sub-station and therefore will have 263-8xxx numbers and will require the dialing of 19 to reach numbers between the Aerospace Center installations.

Orienteer

DEFENSE MAPPING AGENCY AEROSPACE CENTER

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Major Executive Moves Involve Center Persons

Key executive moves were announced recently by the DMA Headquarters and the Aerospace Center that will result in Center employees being promoted or transferred to new positions.

Heading the list was the announcement of Chuck Hall's selection to become the new chief of the Topographic Department of the DMA Hydrographic/Topographic Center. Hall currently heads the techniques office of this Center's Aerospace Cartography Department.

Other assignments announced which shift Center employees were:

Rogers Robinson, ACI to Assistant Chief of the Aerospace Cartography Department;

Leroy Kuykendall, STA, to Chief of the Techniques Office AC;

Cliff Terry, PPG, to Chief of ACI;

John Jolley, ADD, to Assistant Chief of the Aeronautical Information Department.

Previous announcements had moved David Premer from the AC assistant chief position to PP and Robert Hall from PR to the chief of



Deputy Director



This is what the master control room will look like for the Aerospace Center's new Energy Monitoring and Control System. When completed one operator can tell exactly how all the mechanical equipment in the entire complex is performing and make necessary adjustments from a single control console. The system is the JC/80 designed and manufactured by Johnson Controls, Inc.

Caterer Asks for First Price Increase Since 1976

For the first time since the present vendor (Davis Catering) signed their contract in 1976, they are asking the Base Restaurant Council to approve a price increase for non-vended foods on the Aerospace Center installations.

According to John Hinkel, chairman of the Base Restaurant Council, "The old song and dance heard so often before is to be heard again, but it is true. Costs go up, which in turn causes prices to go

up."

"Before getting too upset," added Hinkel, "remember that this is the first increase in the cafeteria and snack bar in three years."

Other changes that will be seen are the elimination of certain specials and charging item-by-item as in the contract. The prices established by contract are the maximum that can be charged and it is the vendor's option to charge lower if they desire.

Frank Kuwamura of the headquarters was selected to head the H/TC Scientific Data Department.

assistant chief position to Frank Robert Hall from PR to the chief of the Cartographic Data Base Division of SD, and Irv Rogers was selected to become chief of AD.

Admin Printing Consolidation

The consolidation of the Administrative Printing function of the Center has been announced and will become effective April 8. Under the consolidation the duplicating section of the Directorate of Administration (AAAR) will be transferred to the Graphic Arts Department.

Copy control, copy machines and forms management will remain the responsibility of Administration. All functions and equipment will be transferred on the effective date. In addition, six people will be affected by the consolidation.

Duplicating unit operation will continue at its present location in Building 4, 8900 until approximately mid-June. Facility

modifications are in progress which will allow the unit to be moved to the Graphic Arts Department, second floor of Building 36 at Second Street.

All affected personnel and some of the current duplicating equipment will be moved at this time. The equipment will be merged with some current Graphic Arts equipment that will allow greater flexibility in printing.

Graphic Arts also intends to procure equipment that will provide even greater improvement of operation.

This consolidation was the result of a two-year study that concluded a more efficient and flexible operation.

To Head ODS

Acting Deputy Director, Col. Merlin Smith, has been selected as the new Director of the DMA Office of Distribution Services in Washington, D.C. The announcement was made by DMA Director, Lt. Gen. Abner Martin.

Colonel Smith will assume his new duties upon the retirement of the current ODS Director, Col. Ray Goelz, sometime this summer.

Colonel Smith has been with the Center since 1973 when he became commander of the Flight Information Office-Pacific, which later became the DMA Depot Hawaii. He transferred to St. Louis in 1975 as the chief of the Requirements Division of the Plans and Requirements Directorate.

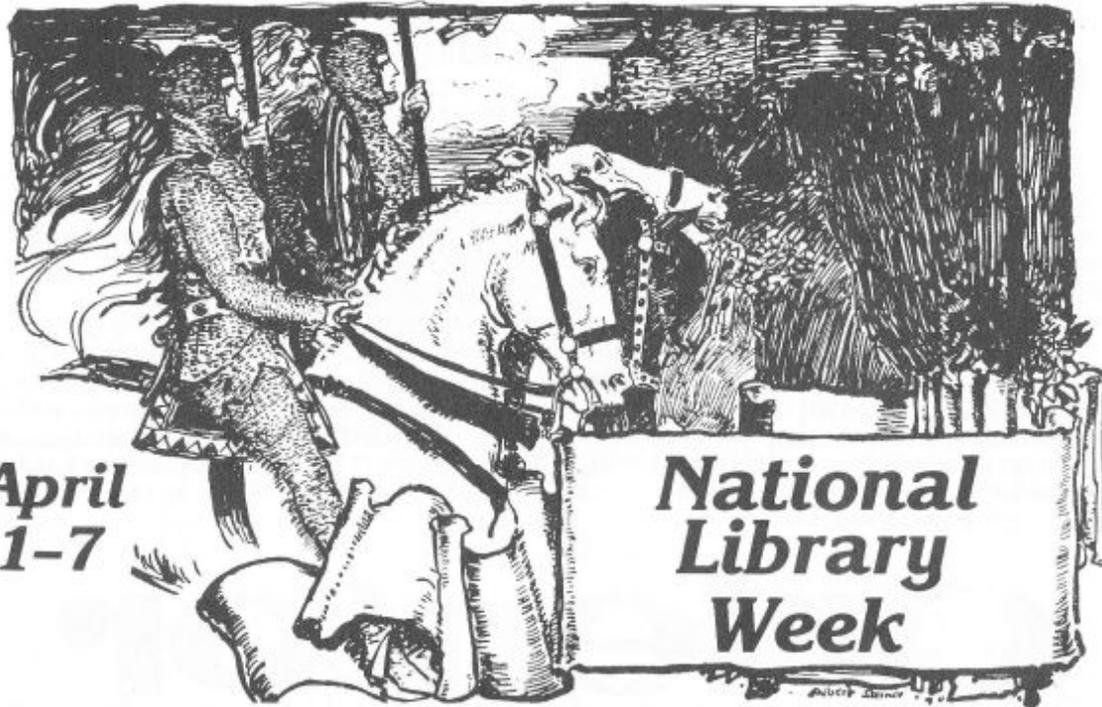
He is a native of Louisiana and holds a degree in geology from the University of Southwestern Louisiana and a masters in geodetic sciences from Ohio State University.

As director of the Office of Distribution Services he will have responsibility for the distribution of all Defense Mapping Agency products worldwide.

**ENERGY SURVEY INSIDE—
WE NEED YOUR THOUGHTS
SEE PAGE THREE**

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April
1-7

National Library Week

The Library of Congress is truly the National Library of the United States. Employing over 5,000 people, it has a collection of upwards of 18,000,000 books with total holdings of research materials aggregating 72,000,000 items. Supporting this vast enterprise requires an annual budget of approximately \$150,000,000.

Contrasts made between the Library of Congress and the DMAAC Technical Library are virtually calculated to give people associated with the Technical Library an inferiority complex.

Almost any measure of comparison (size of collection, numbers of people employed, etc.) between the two reveals that the Library of Congress operates on a scale somewhere in the neighborhood of 600 times greater than the DMAAC Technical Library.

Yet, in spite of its relative smallness, the Center's Technical Library offers unique resources and services to assist accomplishment of mission and mission-support activities. For example, holdings of the Technical

Library include technical literature not held by the Library of Congress.

For use of publications not in the Technical Library, the staff can usually arrange an interlibrary loan from another local public, academic or special library. For these and other library resources to assist you in doing your job better, why not renew your acquaintance with the DMAAC Technical Library during National Library Week, April 1st through 7th?

Bits And Pieces

From the Black book:

Watch out for Sunday. It's April 1 and if you have children like mine

Guard of Month



The ORIENTOR is an official newspaper, published bi-weekly on Friday by and for the personnel of the Defense Mapping Agency Aerospace Center, at St. Louis, Missouri, as authorized by DoD Instruction 5120.4. Opinions expressed herein do not necessarily

DMA Announces Senior Service School Attendees

The headquarters has announced selections for the senior service schools and two Aerospace Center employees have received the nod.

Selected to attend the College of Naval Command and Staff was Charles Houston, Jr., of the Center's Kansas City Office.

Walter J. Rothermel of the Geopositional Department was selected for the Armed Forces Staff College.

Other selections announced

were: Air War College, David Fredlund, Hq, DMA; Armed Forces Staff College-Hubert Buteau, DMAHTC (GSS); Industrial College of the Armed Forces-Joseph Del Vecchio, Jr., DMHTC.

All selections for attendance are firm except for the Industrial College of the Armed Forces. That candidate must compete at the Department of Defense level prior to assured attendance.

Ferguson to be Honored At Retirement Party

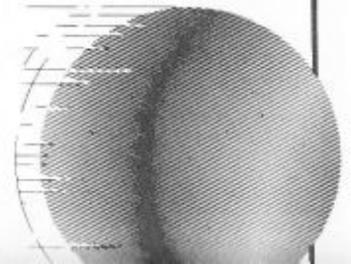
A retirement dinner is being planned for Gilbert Ferguson, chief of the Aeronautical Information Department, on April 27th at the Viking Restaurant (Watson Rd. and Lindbergh).

Ferguson has announced his intention to retire from government service during the early part of May.

According to Irv Rogers, one of the party planners, the dinner will begin at 6:30 p.m. with cash bar followed by the buffet dinner at 7:30. Program will begin approximately 8:30 with dancing from 9:15 to 11:15.

The cost is \$10.25 per person and tickets can be obtained from Otto Stoessel, ext. 4845 or Irv Rogers, ext. 8378.

KEEP THE
BALL
ROLLING IN
COST
REDUCTION!



and if you have children like mine they'll be out to get you. We'll start out with, "your shoe is untied" and work up from there. But other than the start April is a great month. The grass begins to really green and the flowers start to make their way toward maturity. Birds return to the trees behind the house and add their song to the sounds of nature. Outdoor activities increase as the tennis courts and golf courses begin to feel the weight of humanity. And of course, it seems that romance seems to increase as the weather warms. I think, perhaps it doesn't really increase, it just becomes more visible. Whatever the case, it still is a welcome sight and a certain indication of Spring.

You'll find an energy survey elsewhere in this issue. We hope you'll fill it out and return it to us. It will be interesting to know what other problems are with the fuel crisis and how they list their priorities. You don't have to sign the thing so give it a go.

Speaking of energy, that's what I'm going to need the next few weeks and lots of it as I get the ole tennis racket out and begin a getting-in-shape program. Last year my tennis playing got curtailed in mid-season when I sprained an ankle playing a game with my son. He has already indicated that last year was only a sample of his game . . . oh, well, have the hospital standing by.

dlb. . .



Brenda J. Thompson, SOP, has been employed by the Center for a relatively short time but during this period she has been an outstanding performer.

Ms. Thompson's performance has earned her the Security Policeman of the month award for February.

She is only the second female to be employed at the Center in the security police field.

She served in the Army from August 1974 to August 1978.

In Sympathy

Word has been received of the death of Robert R. Young, a retiree of the Center, who died March 8 at his home in Lake Havasu City, Ariz.

He retired from the Center in 1970 and had been assigned to the Cartography Department for 21 of his 28 years of Federal service.

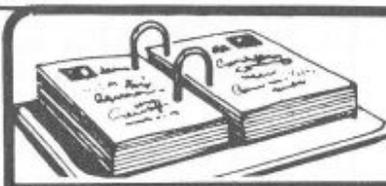
He is survived by his wife Rose and two sons.



Instruction 5120.4. Opinions expressed herein do not necessarily represent those of the DoD.

Col. Robert C. Burns
Director
David L. Black
Chief, Public Affairs Office
Editor

It's Your Money, Too!



Calendar

APRIL 1979

APR	EVENT	WHERE	RESPONSIBILITY
3	Charters Golf - Special	Triple Lakes	P. Perkins/4241
5	Association of Litho Clubs	Grant's Cabin	V. Wojcicki/4713
5	Toastmasters	Lindbergh Room	
10	FBA Lunch & Meeting	Carpenters Hall	D. Black/4142
12	DMAAC Women's Club Luncheon	The Viking	Mrs. E. Williams/ 962-1098
17	Charters Golf	Columbia	P. Perkins/4241
17	ASP Meeting	Dining Hall	Maj P. Wilder/4406
17	BAG Meeting	5th Fl C/R	G. McGuire/4742
18	Assn. for Multi-Image	McDonnell Planetarium	D. Fizer/4357
19	Toastmasters	Lindbergh Room	
19	FEW Meeting	Dining Hall	Maj P. Wilder/4406
20	Bloodmobile	2nd Street	D. Ullo/4292
20	Sandbaggers Golf	Clinton Hills	M. Link/4701
24	NFFE Local 1827	Dining Hall	V. Hann/4044
25	National Secretary's Day		
26	Toastmasters	Lindbergh Room	

Contact Marge Wisneski/4142 to have your May events listed

Retirements Bring Spring Plans

DAVID E. SHEA, LOMR, retired on March 9 with 31 years, 9 months total Federal service.

He served in the 32nd Infantry Division, 127 Regiment during WWII with duty in Australia, New Guinea and the Philippines.

He then worked at the Post Office, special delivery prior to transferring to the Aerospace Center in 1961. He was assigned to Equipment Repair and at the time of retirement was an electronic technician in the Photo Equipment Maintenance Branch.

"Plan to travel and see this country; catch up on chores at home and enjoy life," said Shea.

ANTHONY T. BIRKENMEIER, SDD, retired on March 23 just a month after his 24th anniversary.

His Federal career began with the Army Air Corps in January 1943. He was a bombardier/navigator on B-17s with the 8th Air Force in England and participated in 19 bombing missions over Germany. He then served with the 9th Air Force in North Africa, France and Germany, after the hostilities, conducting aerial photographic survey missions. He was discharged in May 1946 as a first lieutenant.

He entered civilian service at the Chart Plant at 12th & Delmar in May 1948 as a compilation aid in the Photogrammetry Division. He was transferred to the Missile

Support Division when it was activated in 1958. His other assignments include the P&D Plant Technical Development Office, the IDHS Staff, Research Division and the Programs, Production and Operations Directorate. In 1974 he was assigned as Chief of the Cartographic Data Base Division, his assignment at time of retirement.

"Retirement plans include, finishing a seasonal residence I built last year, interspersed with frequent periods of golfing and fishing," said Birkenmeier.

JAMES E. BRITTON, SDDL, retired on March 23 with 31 years, 3 months total Federal service.

He served in the Air Force from September 1943 to March 1946. He was assigned to Special Services as Entertainment Director and took part in shows on base to entertain GI's. He also supplied Day Rooms with equipment and planned entertainment for service clubs.

After the war he worked at the Army Finance Center on Good-fellow in Class E Allotment Division as a correspondence clerk and in check processing section. He transferred to the Aerospace Center in November 1954 as a clerk. At time of retirement he was assigned as supervisor of the Data Bank Library Section.

"No definite plans except to work part time at some endeavor," said Britton.

PAUL C. RIXMANN, GADMP, retired on March 23 with 36 years, 8 months total Federal service.

He served in the U.S. Army from June 1941 until his discharge in December 1944.

His civilian Federal service began in October 1945 at Scott Air Force Base where he worked until October 1946. He then worked at the St. Louis Administration Center until January 1953 when he transferred to the Chart Center. He was assigned as a laborer and at time of retirement was a packer in the Packing Section of the Distribution Division.

Retirements for which no information was furnished the Orientor include:

Elzee Owens, FEMPB, retired on February 8 with 31 years total Federal service. He was a janitor and had been at the Aerospace Center the past 11 years, 8 months.

Kenneth M. Helton, ADDN, retired on March 9, just two months after reaching the 30 year mark. An aeronautical information specialist, he had been at the Aerospace Center the past 17 years, 9 months.

Dorothie F. Lewis, GAF, retired effective March 9. Her entire Federal career of 27 years, 4 months was at the Aerospace Center where she was assigned as a lithographic helper at time of retirement.

What If, Gasoline Was Limited?

Much of the world conversation today deals with energy—its consumption, production and availability. With all the discussion we couldn't help but wonder, "What if each of us were limited to a small amount of gasoline per month? How would we have to change our ways of doing things and going places, particularly to work?"

Perhaps you've considered the problem and the alternatives; if so we'd like your thoughts on the questions below. **If you're a current employee of the Aerospace Center, please check your answers on the form and return it to the Public Affairs Office (PA).** We'll compile the results and report them in a future issue.

Assumption: Each household is limited to 20 gallons of gas per month.

1. Would this present a problem for
 - a) family miscellaneous driving
 - b) family essential driving (medical, shopping, etc.)
 - c) driving necessary for income production (getting to work)
 - d) recreational driving, including vacations
 - e) all of the above
 - f) no problems at all
2. How do you currently get to work?
 - a) carpool
 - b) individual driver
 - c) public transportation
 - d) other (specify)
3. In terms of mileage, is your one-way distance between home and work:
 - a) 0-5 miles
 - b) 6-10 miles
 - c) 11-20 miles
 - d) 21-30 miles
 - e) over 30 miles
4. Do you work at:
 - a) 2nd Street
 - b) South Annex
5. To offset the reduction in gasoline, would you **primarily** compensate by using:
 - a) public transportation
 - b) joining or increasing a carpool
 - c) relocate home
 - d) change employment
 - e) purchase more fuel economic vehicle
 - f) retire from employment
6. What priority would you place on these energy related potential changes to your way of life: (0 - no change; 1 - major change; 2 - minor change; 3 - may have to consider).
 - a) vacation plans
 - b) daily personal driving (not income related)

United Kingdom Visitor Learns About Aerospace Chart Production

Brigadier Robert M. W. Busk, Deputy Director of the Military Survey for the United Kingdom, chats with Center Director, Col. Robert Burns,



Director, Col. Robert Burns, during the brigadier's visit to St. Louis this month. While at the Center on a two day tour he was given an insight to the Aerospace Center's production operations.



- b) daily personal driving (not income related)
- c) income producing driving
- d) reorganization of necessary personal driving (medical, shopping, etc.)
- e) reduction in vehicle numbers
- f) change in vehicle types
- g) look for non-gasoline consuming transportation
- h) reduce leisure activities requiring transportation

Ridesharing Saves Auto, Energy Costs

The chart at right, developed by the Federal Highway Administration, shows consumers how much money they can save by ridesharing in daily commuting.

The operating and owning costs shown in the table include costs for gas, oil, maintenance, tires, repairs, insurance, depreciation, finance charges, licenses, and taxes.

The chart shows that considerable savings—up to \$1,900 annually—are possible by switching to ridesharing instead of driving alone. A pamphlet called *Rideshare and Save—A Cost Comparison*, is available free by sending a postcard to Consumer Information Center, Dept. 512G, Pueblo, Colo. 81009.

Annual Costs of Commuting to Work

One-Way (Miles)	Vehicle Type	Cost Category	Drive Alone	Ridesharing Options					
				Shared-Driving Carpool		Shared-Riding Carpool		Vanpool	
				2-person	4-person	2-person	4-person	8-person	12-person
10	Subcompact (Pinto, Vega, etc)	Operating	264	132	66	132	66	57 270	38 180
		Owning	236	144	118	59			
		Total	500	276	152	250	125		
10	Standard (LTD, Caprice, etc)	Operating	418	209	105	209	105	327	218
		Owning	332	204	121	166	83		
		Total	750	413	226	375	188		
20	Subcompact	Operating	528	264	132	264	132	114 270	76 180
		Owning	330	230	144	83			
		Total	858	494	276	429	215		
20	Standard	Operating	837	418	209	418	209	384	256
		Owning	464	326	204	232	116		
		Total	1301	744	413	650	325		
40	Subcompact	Operating	1056	528	264	528	264	228 270	152 180
		Owning	412	321	224	103			
		Total	1468	849	488	734	367		
40	Standard	Operating	1674	837	418	837	418	498	332
		Owning	580	454	326	290	145		
		Total	2254	1291	744	1127	563		

Treasured Moment—12 Strikes

For Milton Ochs, GDDD, March 22 will be a day to remember. On lanes one and two of the Stein Brothers Lanes in St. Louis he rolled 12 consecutive strikes for the perfect 300 game.

"When I stepped up to bowl in the 10th frame it was just a numb feeling," said Ochs. "My biggest problem was to keep my hand from shaking." He did throw a "Brooklyn" in the tenth but it was solid and cleared the pins.

This was the first 300 game for Ochs. He bowls in the early Thursday night league made up of Aerospace Center employees.

He has been bowling for about five seasons. This is his first year for the Thursday night league. He



carries a 179 average and had games of 179, 189 and 300 for a series total of 688 March 22.

Sandbaggers Hold First Tourney

The Sandbaggers, a new golf league at the Center, will hold its first tournament April 20th at Clinton Hills course in Illinois. Tee-off time is 1:30 p.m.

The league is still accepting membership and at this time have 41 members. The Sandbaggers league is different from most leagues in that you play any course at any time you desire with one other member. Your only requirement is to turn in a score card once every two weeks.

A tournament will be held each month with four tournaments a three-man scramble tourney. A different course for each tournament will be used.

Following the April 20th tournament all others will be held on Thursday so that they will not conflict with other leagues play.

Those interested in entering the first tournament should sign the sheet across from the Building 36, 1st floor snack bar or if you're

For those that have never participated in a three-man scramble it is reported to be one of the most exciting tournaments played. To play the league is divided into three groups based on handicap (A flight, B flight, C flight). Two days before the tournament a random drawing is held and three names selected, one from each flight. These individuals compose one team. Using a par 4 as an example, all three golfers hit off the tee and then decide which drive is best. All three then hit their second ball from that point. Again the three decide which second shot is best and all three hit from there, let's say that is the putt. When one player drops the putt that constitutes the team score. If you're a poor iron player but a good putter you can still help your team.

Three trophies are to be awarded to the 1st place team at each tournament plus closest to the hole

Center Employees Involved in AMI

Several employees of the Aerospace Center were instrumental in the organization of the St. Louis Chapter of the Association for Multi-image (AMI), according to Vice-President, Donald Fizer of SDRG.

The national association is composed of thousands of professionals, amateurs and students, in related fields of endeavor, all promoting the understanding and utilization of the medium of multi-image.

The intent of the chapter, according to Fizer, is to localize the objectives of the national and to bring together interested persons in government, industry and education to exchange knowledge and ideas and to promote the medium as a tool of education, entertainment and communication.

All interested persons are welcome to attend the monthly meetings held at the McDonnell Planetarium. Contact any member for additional information.



Aerospace Center employees involved in the new AMI Chapter are: (left to right), Frank Aufmuth, SDRA; Alva Bevard, SDRA; Lawrence Burns, SDRA; William Enk, SDRA, Director; Jim Mohan, SDRG; Robert Gestel, SDRA; Don Fizer, SDRG, Vice-President; George Paige, SDRG, Treasurer. Not present for photograph was John LaBusier, SDRA, Director.

AGU Branch Celebrates 10th Anniversary

The Metropolitan St. Louis Branch of the American Geophysical Union celebrated its 10th anniversary March 8th with a special meeting to elect new officers and hear the first president of the local speak on Alternative Forms of Energy.

Returning from Washington D.C. to renew acquaintances and speak to the group was William Durbin, who currently serves with the DMA headquarters.

During the short business meeting new AGU officers were elected for the 1979-80 meeting



1st floor snack bar or if you're located at 8900 call Michael Link, ext. 4701, for sign-up information. Two score cards are needed before the tourney so that flights can be established

prizes. Members of the Sandbaggers committee are: Michael Link, John Sloan, Richard Remmler, Howard Peacock and Jim Palmer.

lected for the 1979-80 meeting year. They are: (pictured right) Donald Vail, treasurer; Brian Mitchell, president; Gerald Breville, secretary; Luman Wilcox, president-elect.



April is the month when we fully realize Spring is finally here and the last chill winds of March have been tempered by warm breezes.

With the numerous poetic comments about April, it seems few months have so inspired the bards.

Shaemas O'Sheel, for example, wrote:

"When April rain had laughed the land
out of its wintry way,
And coaxed all growing things to greet
With gracious garb the May."

In a story filed with the *New York Times* in April 1918 during World War I, the beauty of nature was sharply contrasted with the awful reality of war. The

correspondent wrote, "In a night, as it seems, all the orchards of France have flowered, and cherry and apple trees are in full splendor of bloom, fields are powdered with close growing daisies, and the shadows of trees are long across the grass as the sun is setting. But over all this and in the midst of all this is agony and blood. On the roads are fugitives, wounded soldiers, dead horses, guns and transports. There are fires burning on the hillsides; I saw their flames and their great rolling clouds of smoke . . ."

april