

# Carpools Can Be Fun...

The average automobile on a work trip in a major metropolitan area contains approximately 1.6 people. If that number were increased to 2.0, about 20 percent of the cars on the road during rush hour could be gone and some of the frustration of rush hour driving with them.

**How do you increase that number?** Based on an analysis of expenses involved in commuting to and from central business districts in urban areas of over one million, by car, bus and rail transit or combinations of the three the Highway Users Federation says the answer is the carpool. According to HUF, carpools of two or more people are the most economical means of commuting.

Since DMAAC employees are among the fortunate in the downtown area and don't have to pay parking fees let's use the 10 cents a mile operating cost to figure your travel expenses.

Assume you drive 10 miles to work, allowing 20 days per year for vacation and sick leave that means you pay \$480 a year to drive your car to and from work. If you shared the cost with a four man carpool you'd save \$360 per year. Not bad, eh! If you had to pay the average garage parking cost your costs would be increased by \$1.35 per day or \$324 per year.

DMAAC traffic survey results indicate more and more employees are looking at their individual costs and joining carpools.

At 2nd Street 59% of the personnel were riding with someone on November 14. On December 14th the percentage increased to 61% and by January 17th had risen to 74%. A 15% increase in two months.

The number of single occupant vehicles decreased from 627 to 490 by January 17.

Carpool locators, by zip code areas, have been established at 2nd Street and South Annex for the

convenience of employees. Additionally zip code printouts have been furnished departments and directorates for personnel use.

As an additional incentive to carpooling some insurance companies are offering reduced rates for carpools. Included in this group is the Arsenal Credit Union insurance program. A call to your insurance agent may result in added benefits for your carpool driving.

If you're just forming a carpool a word to the wise from experienced carpool riders may be worth reading. Complete agreement, they say, should be reached by all concerned with regard to pick-up times, who drives when, payments, car size, how long to wait on the late riser, smoking or not, playing of the radio, eating in the car, shop talk and air conditioning. It was pointed out that drivers should also check with their insurance companies to make sure carpool passengers are covered.



"Try it, you'll like it" says Captain Douglas Nolte about carpools. Actually we fixed Doug up with this special carpool just to get your attention. If you haven't formed a carpool yet the information in the accompanying article might help you make up your mind. Our special carpool is composed of: (left to right) Cathi Corbett, Evelyn Bible, Mary Ann Vogel and Linda Wuellner (seated). Obviously this type of seating arrangement is not recommended for safe driving.

# Orienteer

DEFENSE MAPPING AGENCY AEROSPACE CENTER

Vol. XIV, No. No. 28

February 8, 1974

## New Energy Measures

President Nixon said he is asking William Simon, chief, Federal Energy Office, to direct that additional actions be taken to reduce further the amounts of energy used in the Federal Government.

## 1974 CWC Members

New members and alternates were added to the DMAAC Civilian Welfare Council in the January meeting. According to regulations, half of the membership is elected each January for a two year term. Other elections are held to allow for the addition of new organizations, as necessary, or to

### Area 8 (PD)

Charles Ruma, PDR, 8148  
Alt. Edwin Schmidt, PDA, 4024

### Area 9a/ 9b/ 9c (MD)

John Lefman, MDDT, 4646  
Alt. John Miller, MDCO, 4079  
Jan Czarniecki, MDR, 4181  
Alt. Ken Swehla, MDG, 4079  
Max Roberts, MDMP, 4215

## Moscow Trip Earns Praise

The Director of the Lunar Programs Office NASA has expressed his appreciation to DMA for its support in making available highly qualified personnel to attend the USA/USSR Lunar Cartography Meeting, Moscow, USSR.

Two of the attendants were Robert Carder and Lawrence Schirmerman of DMAAC. Also

Fischer.

In his letter William O'Bryant said, "The Defense Mapping Agency personnel were outstanding representatives in the USA delegation. Their many contributions based on their knowledge, experience, and interest were most helpful."

Complete reports of the joint meeting have not been made

energy used in the Federal Government.

Steps to be taken, according to the President's memorandum for heads of departments and agencies, will include reductions in vehicle mileage and tuning Federal vehicles for maximum fuel efficiency. Also, procurement policies will be changed to require the buying of energy-efficient automobiles. Limousines and large sedans not required for security or other highly essential reasons will be removed from service. In addition, car pooling will be given high parking priority.

The memorandum continued: "Further reductions will be made in heating, cooling, and illumination of Federal buildings. Procurement policies will stress the efficiency of air-conditioners purchased by the government. Contractors with the Federal Government will be asked to comply with energy conservation practices concerning the temperature and illumination of buildings."

The President said that he is directing that a Federal employee and agency awards system be established to provide incentives for energy conservation.

In June 1973, President Nixon directed that each Federal agency reduce its energy consumption rate by seven per cent. "Some agencies exceeded this goal during the first quarter of this fiscal year; others did not. The overall result has been a total savings in excess of 20 percent, which is highly commendable," the President wrote.

organizations, as necessary, or to fill unexpected vacancies.

The new Council selected Alvin Boxdorfer as Chairman and John Lefman as Recorder. Other members will serve on one of these committees, Budget, Equipment, Research, or Social and Welfare. The complete roster of Council members and alternates is provided below.

#### Area 1

(D, AA, SOS, OI, PP, CO, PR)  
Patricia Mykins, PPTT, 4515  
Alt. William Washington, AAAB, 8420

#### Area 2

(POS, CM, IG, SOC)  
William Leong, CMM 4901

#### Area 3

(LO and FE-2nd St.)  
Patricia Fleming, FEPC, 4072  
Alt. Arthur Kirchner, FEPP, 4811  
Area 4a/4b (AD)  
Alvin Boxdorfer, ADFD, 8404  
Alt. Opal Echrich, ADLD, 8400  
David Tolpen, ADDN-1, 8221  
Alt. Harold Freeman, ADDP-5, 8192

#### Area 5a/5b/5c (CD)

George Paige, CDG, 4986  
Janet Fialka, CDZ, 4818  
Alt. Doug Brown, CDI, 4503  
Joe Aromando, CDFC, 4015  
Alt. Charles Houston, CDCE, 4014

#### Area 6

(PO, LO and FE - 8900, SFC, DIS)  
Sandra Wallace, POW, 8346  
Alt. Juanita Major, LOP, 8171  
Area 7a/7b (RD)  
Joseph Mischick, RDG, 4088  
Alt. James Ragan, RDS, 4780  
Irvin Tumey, RDG, 4088  
Alt. Ernie Miller, RDS, 4084

Max Roberts, MDMP, 4215  
Alt. John Miller, MDCD, 4079

The new CWC is pictured below.

## ASP Meet

The St. Louis Region ASP will hold its next dinner meeting, Thursday, February 21, at the DMAAC Dining Hall.

The guest speaker will discuss "The Meramec Basin Corporation."

The evening's program will start with cocktails (cash bar) at 4:30, dinner at 5:30 and the presentation at 6:30. Local area ASP representatives will have tickets available for \$4.00 each.

Shimberman of DMAAC. Also attending from DMA was Noel

meeting have not been made public as yet.

## NASA Certificate

DMAAC was recently the recipient of a certificate of appreciation from the National Aeronautics and Space Administration for support of the Skylab program.

Accepting the certificate was agency Director, Colonel Walter J. Chappas.

In making the presentation Christopher Kraft of NASA said, "The certificate is presented in

recognition of the outstanding accomplishments in the production of flight crew map data packages and simulator earth scene film transparencies that contributed significantly toward the success of earth resources experiments during the Skylab program."

The presentation was made at the Lyndon B. Johnson Space Center in Houston.



# E/P Display Looks At History

by William Hogan

A great deal of interest has been generated by Part I of the Effectiveness/Productivity display which is now being shown in the first floor hallway of Building 36.

Of particular interest is the historical perspective panel which marks both the trend in national productivity levels and concurrent sophistication of the aerospace industry since the inception of the "Air Age" in the early 1900s. The St. Louis-San Francisco Railway Company map used in the 1910 display is a reproduction of an authentic railroad map dating back to that period. It was furnished through the National Museum of Transport by Dr. John Roberts. The map, copied for the display, is part of the famous Jay Gould Collection. In the early part of this century, railroad lines provided the primary means for air navigation. Also air travel was often combined directly with railway transportation. It was quite common on a cross country trip to fly during the day to continue by train at night.

The chart in the background of the second time period — 1930, is also a reproduction of an original historical document, in this case furnished by the Hydrographic Center. It is a reproduction of the actual chart used by Charles Lindbergh in his famous trans-Atlantic flight of 1927. The chart has been enhanced for display purposes to include an overprint of Lindbergh and his aircraft, "The Spirit of St. Louis". The chart contains Lindbergh's personal autograph and his handwritten notes recorded during the course of his famous flight.

The 1950 chart, although no longer in use is an actual World

siderably larger amount of ground detail (spot elevations, cultural features, city outlines, etc.) than the simple coast lines portrayed on the Lindbergh chart.

As technology advanced, high performance planes cruised at faster speeds as well as higher altitudes. Being responsive to these changing users' needs, Operational Navigation Charts like the chart featured in the 1970 display were developed for this changing technology. At the present time ONCs are designed to give a pilot the same type of perspective that he might have in a contemporary aircraft. Shaded relief replaced the former gradient tints. Cultural features, major cities, and hydrographic details now stand out much more prominently than with the WAC charts of the 1950s. The 1970 display also includes a section of a film strip to symbolize this Center's direct involvement in supporting advanced navigational devices. DMAAC products are constantly being adapted to contemporary needs as technology moves ahead. In the future are the digital map display systems which we have currently under development.

Using this historical perspective to look back from today to 1910, one marvels at the daring of the early pilots. With what today seems like primitive equipment and at best limited features on charts, men like Lindbergh took up the challenge to blaze a new trail through history.

The challenge presented by E/P, though it does not rest upon one individual, can personally demand similar courage.

## Bits And Pieces

From the Black book:

Did you ever have one of those days when nothing went right? That's what happened to me January 25th when the last edition of the Orientor came out. First off I noticed an incorrect front page headline—the automated cartographic system should have been the advanced cartographic system. As if that wasn't bad enough, as I read the article I found I had incorrectly referred to the system twice more. Three errors and I hadn't even gotten off the first page, as a matter of fact I didn't look any further. Next in line for the day was the trip home. Three times on the southbound interstate I had to jam on my brakes as those in a bigger hurry than I to meet their maker rapidly changed lanes in front of me. As I neared the entrance to my subdivision there was a minor accident which forced me to back track my route and go home by another road. But all that wasn't the worst to happen on January 25th. My wife read the paper, this column in particular, in which I had written about her great-grandmother, only it isn't a great-grandmother it's a grandmother. Did you ever spend the weekend in the doghouse?

-0-

There used to be a fellow with the old ACIC security force by the name of MSgt Melvin Stark. He made national news recently when he gave his wife a parking ticket in Searcy, Ark. where he's now a police officer. He didn't have to spend the night in the doghouse though. He just had to pay the ticket. Oh well, some people have

## Alcoholism-Counseling Services

Several DMAAC employees with arrested drinking problems have recently formed a group designed to provide counseling and share their experiences, strength and hope gained through their membership in Alcoholics Anonymous.

The group holds weekly lunch

hour meetings on base and attendance is by invitation only.

Troubled employees and supervisors, with employees who are suspected of having drinking problems, are encouraged to seek information and assistance from this group by telephoning 268-8255.

### ARE YOU AN ALCOHOLIC?

Ask yourself the following questions and answer them as honestly as you can.

	Yes	No
1. Do you lose time from work due to drinking?	<input type="checkbox"/>	<input type="checkbox"/>
2. Is drinking making your home life unhappy?	<input type="checkbox"/>	<input type="checkbox"/>
3. Do you drink because you are shy with other people?	<input type="checkbox"/>	<input type="checkbox"/>
4. Is drinking affecting your reputation?	<input type="checkbox"/>	<input type="checkbox"/>
5. Have you ever felt remorse after drinking?	<input type="checkbox"/>	<input type="checkbox"/>
6. Have you gotten into financial trouble as a result of drinking?	<input type="checkbox"/>	<input type="checkbox"/>
7. Do you turn to lower companions and an inferior environment when drinking?	<input type="checkbox"/>	<input type="checkbox"/>
8. Does your drinking make you careless of your family's welfare?	<input type="checkbox"/>	<input type="checkbox"/>
9. Has your ambition decreased since drinking?	<input type="checkbox"/>	<input type="checkbox"/>
10. Do you crave a drink at a definite time daily?	<input type="checkbox"/>	<input type="checkbox"/>
11. Do you want a drink the next morning?	<input type="checkbox"/>	<input type="checkbox"/>
12. Does drinking cause you to have difficulty in sleeping?	<input type="checkbox"/>	<input type="checkbox"/>
13. Has your efficiency decreased since drinking?	<input type="checkbox"/>	<input type="checkbox"/>
14. Is drinking jeopardizing your job or business?	<input type="checkbox"/>	<input type="checkbox"/>
15. Do you drink to escape from worries or trouble?	<input type="checkbox"/>	<input type="checkbox"/>

longer in use, is an actual World Aeronautical Chart (WAC) produced by this Center. The WAC chart was one of the primary products developed by DMAAC during the transition to the "jet age". This chart is a far step beyond anything available during the Lindbergh period. The chart is literally hundreds of times more accurate and contains a con-

demand for similar courage, initiative, creativity, and persistence. For each of us there is the challenge to do 10% more with no more than what we presently have. This will surely demand creativity in thinking of innovative ways to improve. Surely the E/P challenge is one that we can collectively meet and perhaps even exceed.

## AGU Meet

The annual business meeting of the Metropolitan St. Louis Branch of the American Geophysical Union was held on Monday January 21 in the Busch Memorial Center at St. Louis University. The meeting culminated a most interesting year of activities with Luman Wilcox, RDNC as president.

An election was held to fill the positions of President-Elect and Treasurer. The incumbents were Dr. S. A. Vincenz of the Earth 2nd Atmospheric Science Dept. — St. Louis University and Melvin Schulte — RDGW, respectively. The newly elected officers are John Finklang PRA as President-Elect and John Dersch — RDNL as Treasurer. Dr. S. A. Vincenz automatically became President at the expiration of the president's term.

Following the business meeting M. King Hubbert, research

geophysicist, U.S. Geological Survey, spoke on the topic of "energy".

Hubbert said that in the United States the peak in petroleum production occurred in 1970 and that production then began to decline.

The peak in world production of crude oil is expected to occur in about the year 2000 and the peak for coal production in about 2150 or 2200, Hubbert said here Monday.

He said that in March, 1956, he had predicted that the United States would reach its peak in crude oil production within 10 or 15 years after 1956. The peak occurred in 1970, he said.

He also said that the ultimate amount of oil that the country could produce was between 150 billion and 200 billion barrels. In the 97 years before 1956 about 52 billion barrels had been produced, he said.

better luck than others.

dlb..

-0-

It has become a tradition with us upon the approach of Valentines Day to offer the gals among our readership a verbal bouquet of long stem red roses and this year is no exception. In fact, since you all look prettier everyday that I get older we'll make it a baker's dozen this year.

dlb. . .

## In Sympathy

Word was received by the Orientor of the death of Ann V. McAdams, a retiree, on Friday, January 18. Services were held at Church of the Magdalen with interment in Calvary.

Mrs. McAdams had been at DMAAC 5 1/2 years prior to retirement August 9, 1969. A secretary, she was assigned in the Aeronautical Information Division, Edit Evaluation Branch.

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Col. Walter J. Chappas

Director

David L. Black

Chief, Office of Information  
Editor

16. Do you drink alone ?

17. Have you ever had a complete loss of memory as a result of drinking ?

18. Has your physician ever treated you for drinking ?

19. Do you drink to build up your self confidence ?

20. Have you ever been to a hospital or institution on account of drinking ?

If you have answered YES to any one of the questions, there is a definite warning that you may be alcoholic.

If you have answered YES to any two, the chances are that you are an alcoholic.

If you have answered YES to three or more, you are definitely an alcoholic.

(The above Test Questions are used by John Hopkins University Hospital, Baltimore, Md., in deciding whether or not a patient is alcoholic.)

## Chin Receives MBA

Dick K. Chin, CDAC, received a Master of Business Administration degree from the Graduate School of St. Louis University on January 4, 1974. This degree was the result of a four-year evening studies program started by Mr. Chin in February 1970.

The MBA degree consists of 48 semester hours of study on five major fields of business subjects: accounting, economics, finance, management science, and marketing. Management Science

was Mr. Chin's major area of concentration.

Mr. Chin received his undergraduate degree in geography from the University of Utah in 1960.

He and his wife and two children reside in South County.

Mr. Chin is also active in the U.S. Army Reserve as the Commanding Officer of a military intelligence detachment here in St. Louis and has been selected for promotion to become a Major.

## Recent Arrivals

MAJOR FRANK D. HOTTER reported in recently and has been assigned as Chief Advanced Systems Branch, Directorate of Plans, Requirements and Technology.

A 14 year veteran of the Air Force, Major Hotter was commissioned in 1960 through the Airman Education and Commissioning Program. A native of Colorado he received a professional engineering degree from Colorado School of Mines in 1959. He received his master's degree in Geodesy from Ohio State and his Ph.D. in Geodesy this past year thru the AFIT program.

He and his wife Bonnie, and their two daughters, Alice and Janet, reside in Fairview Heights, IL.

CAPTAIN GARY L. GRAVES reported in on January 8 as the new Supply Officer. He succeeds Captain Robert R. DiCocco.

Captain Graves was reassigned from the 56 Supply Squadron at Nakhon Phanom, Thailand.

He was commissioned through the ROTC program at Texas Tech University, Lubbock, Texas in 1968 where he received a B.A. in Business. He received his masters degree in Logistics last year through the AFIT program.

Captain DiCocco was reassigned to USAF Security Services, Kelly AFB, TX.

CAPTAIN ROBERT A. ALLEN assumed command of the 1918 Comm. Sqdn, Detachment 1 on November 1, 1973. He succeeds Captain Salvatore R. Bosco.

A native of Morristown, Tenn., Captain Allen received a B.S. in Math in 1968 at Lafayette College, Easton, PA., and was commissioned in 1969 through the Airman Education and Commissioning Program. His last assignment was at Gentile AFS, Ohio.

Captain Allen and his wife Sylvia have one daughter, Stephanie, age 2.



Hotter



Graves



Allen

## 30 Years Service

ALBERT P. LITWA, ADDE,



DMAAC is Chief of the Europe, Africa, and Middle East Branch of

Department where he is assigned to the Positional Data Division.



AQUARIUS

JANUARY 21-FEBRUARY 19

The friendly, charming, fun-loving Aquarian is the humanitarian who loves and attracts and needs people. Your generosity often prevents you from saving the funds for the elegant home you want where people can congregate. The Payroll Savings Plan for U.S. Savings Bonds is the answer.

Due to illness of the Orientor editor the Advanced Cartographic System feature scheduled for this issue has been rescheduled for the February 22 issue.

## Roberts Retires

JAMES A. ROBERTS', FEM, retirement was effected January 28th. His Federal service began with his induction in the U.S. Army at Fort Custer, Mich. August 8, 1942. Assigned to the 43rd Infantry Division (Light Artillery Platoon) squad leader sergeant, he spent 32 months in the South and Southwest Pacific and participated in initial landings on Munda Island, New Georgia, New Guinea, Luzon, Philippines and the final operation on Guadalcanal. He was discharged at Jefferson Barracks on October 7, 1945.

He resumed his Federal career in September 1952 when he went to work at Strategic Air Command, Forbes AFB, Kans. Four years later he transferred to Colorado Springs, CO and was among the first engineering personnel (heating) to monitor construction and start up of the high temperature, high pressure hot water heating plants at the Air Force Academy. With completion of the job he returned to the St. Louis area and worked for the Veterans Administration and Granite City



Army Depot prior to transferring to DMAAC in March 1962. He was assigned as boiler plant equipment mechanic foreman at time of retirement. He states his retirement plans include: "develop our home and acreage in the lovely hills in Wayne County, do a lot of hunting and fishing with our young son Marke." "If any time left, will visit a brother living in the State of Washington."

He added, "The Air Force has been a wonderful employer. Also looking forward to receiving every issue of the Orientor."

## AGU Looks At Minority Participation

"How can the American Geophysical Union use its resources, most of which are intellectual, with the greatest leverage to increase minority participation both in the short term and over the next generation?"

That was the question posed to Kennard O. Whitfield of DMAAC as he was appointed chairman of the Committee on Minorities for the AGU. The appointment followed Whitfield's chairmanship of a half-day session on Minority Participation in Geophysics at the 1973 AGU spring meeting in Washington, D.C. During the

WTI program, have been developed.

In a report to the Annual Fall Meeting in San Francisco Whitfield outlined the activities and progress which consisted of:

1. Formulation of a symposium on Minority Participation in geophysics for the annual fall meeting in December 1974.

first entered Federal service in August 1942 in the Army Air Corps. He received his commission in December 1944



Litwa

through the Aviation Cadet Program. After attending RADAR school he was assigned crew duty on B-29s. After WW II, Litwa returned to civilian status, but not for long; he rejoined the Air Force in June 1947 and served in Puerto Rico and in Germany during the Berlin airlift.

When the Aeronautical Chart and Information Service (ACIS) established operating locations in 1951, Litwa, as a military officer, was designated to organize and command the first office in Germany. After completion of his tour in Germany, he was assigned to Hq ACIS as Chief of the FLIP Branch, Requirements Division in 1952. In 1953, he again reverted to civilian status and rejoined the Requirements Division as a Program Manager until August 1969.

During this period he attended the Air War College at Maxwell AFB for ten months. He is an active member of the Missouri Air National Guard, Lambert Field, as a Colonel, he's assigned to the State Staff as Director of Personnel Management.

His present assignment with

the Data Reduction Division, Aeronautical Information Department.

OLIVER M. VOELKEL, MD-DA, reaches the 30 year mark tomorrow, February 9th. He enlisted in the U.S. Coast Guard September 23, 1939



Voelkel

and was discharged six years later. He was assigned on large cutters until WW II when he was assigned aboard long range sub chasers. He spent 57 months primarily in the North Atlantic area.

He returned to Federal service when he joined DMAAC February 13, 1950. He was assigned to Photogrammetry Division as a cartographer (photogrammetry) until June 1964 when he was reassigned to the Research Division. In December 1970 he was transferred to the Missile Support

## DMA Officers Selected As District Engineers

Two Defense Mapping Agency Officers were selected as District Engineers by an Army Command Selection Board, according to an announcement by Lt. Gen. Howard W. Penney, Director of DMA.

Colonel Bernard C. Hughes, USA, Chief of Plans Division, Headquarters DMA and Colonel

BILLY G. SMITH, CDP, enlisted in the Army Reserve Corps in November 1942. He was attending Northeast Missouri State University at Kirksville, MO when called to active duty in March 1943. He completed basic training at F. E. Warren AFB, Wyo. and specialized training in engineering at the University of North Dakota. He served with the 66th Infantry Division in the European Theater of Operations. He was discharged in February 1946 and the following month went to work at the Veterans Administration assigned to Claims Processing. He transferred to DMAAC in May 1954. As a cartographer, he is presently assigned to Special Projects in the Cartography Department's Production Office.

"Has it only been 30??" commented Bill - "Seems like 130."

George B. Gray, USA, Deputy Director for Plans, Requirements and Technology, DMA Topographic Center were two of eleven officers selected for key Army Engineer positions.

Colonel Hughes has been assigned as District Engineer, New York. Colonel Gray's specific assignment has not been released.



Smith

Washington, D.C. During the session a five member panel discussed academia, job opportunities in private industry, job opportunities in the Federal government, minority participation and the professional societies, and personal experiences as a minority participant.

Following the session the AGU was contacted by the Washington Technical Institute (WTI), the District of Columbia land grant college, concerning the setting-up of an AGU-WTI program in geophysics education. One direction of interest to WTI is the development of a two or four year post high school program to train geophysics technicians. According to Whitfield, AGU is presently conducting a survey to determine career opportunities for technicians in geophysics.

Future aspects of the program in which the AGU Committee on Minorities will become involved include curriculum development, seminars and workshops, assistance in locating potential faculty members and assisting graduates obtain employment. The project will enable AGU to learn about problems and solutions of minority education and employment in geophysics while responding to specific WTI needs.

Since Whitfield's appointment as chairman of the committee several actions, in addition to the

meeting in December 1974.

2. Preparation of an article on minority participation for submission to monthly publication of the AGU.

3. Development of a roster of minority graduates in geophysics.

4. Endorsement of the AGU financial contribution to the American Geological Institute program.

As chairman of the AGU Committee on Minorities, Whitfield is a member of the Advisory Committee on Minority Participation of the American Geological Institute.

"To make our program successful," said Whitfield, "we must have the cooperation of both governmental and private industrial organizations employing individuals with geophysics skills. Here at DMAAC the agency has endorsed the program and pledged its full support to the committee."

## Art Exhibit

A series of paintings by Bob Karleskint which depict European scenes and subjects will be on display at the Chase Park Plaza Hotel during the month of March.

The show has been arranged by Bob to coincide with the annual ASP/ACSM Convention.

This exhibition on the European motif has been developed as a result of studies made during his trip to Europe in the latter part of 1973.

# Energy Conservation Work Underway-

## A Plan For All Seasons

by Robert Wolverton, FE

All good plans have certain common factors which contribute to their success. Factors such as, a definite requirement for a plan, an organized well directed effort, and an energetic implementation. DMAAC's energy conservation plan has all these factors and more.

When it became obvious this country needed to conserve its natural energy resources, President Richard M. Nixon mandated federal agencies to take leadership in this effort. His memorandum for Heads of Departments and Agencies of June 29, 1973, outlined not only the requirements involved, but placed the ball squarely in the respective department or agency to develop a plan that would work for them.

DMAAC's Energy Conservation Committee, chaired by Col. Hawkins working in conjunction with the DMA Energy Task Force, headed by Gen. Breedlove, is providing the organized leadership and direction our plan requires. Coordinating DMAAC's energy conservation effort is Charles Turner, FEI.

One of the committee's first actions was to request that each department appoint an energy monitor. In special briefings Turner outlined the basic requirements of the President's memo to the monitors, which include: reduction of electrical consumption by 7% and heating fuel by 15%. He also pointed out that while these reductions would be consistent with other governmental agencies, our particular buildings would be analyzed to provide optimum comfort for

experts as to the technical aspects of the plan.

To date, approximately 90% of departmental supervisors have been briefed. Ernest Wolff, FEE, and Charles Schmidt, FEM, have been providing technical expertise at these meetings. Subjects covered included heating and cooling plant operation, air distribution, and room temperature control. Mr. Wolff said the supervisors indicated a considerable knowledge of the subjects covered, a very real desire to cooperate, and great interest in providing a comfortable working area for their people within the framework of the plan to conserve energy. Room temperature control came in for a fair share of discussion at these meetings.

There are many factors included in the effort to control room temperature. An efficient heating/cooling plan is necessary, as is proper distribution of heated or cooled air. This is done through a ducted distribution system using ceiling diffusers. Each of these diffusers are set to deliver a specific amount of air and all are part of a delicately balanced system. Altering or blocking part of the air flow from one diffuser will throw the entire system for part of one floor out of balance, causing discomfort to other people perhaps in another office.

It is obvious that participation by all employees at DMAAC is needed to make any energy conservation plan work. During the first six months reporting period for the conservation program DMAAC has achieved an excellent record. Figures



Bill McNichols adjusts quadrant damper for greater boiler efficiency.

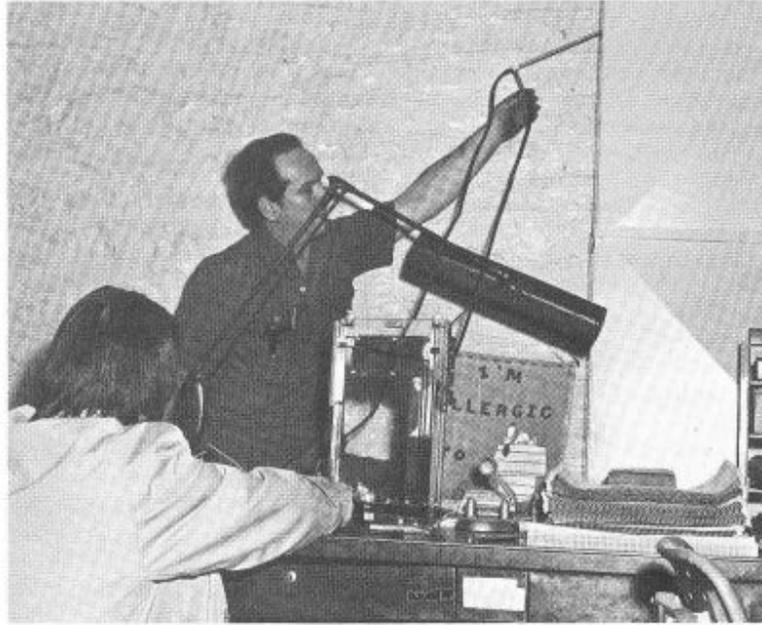


To make sure the heat comes through, Dean Evans verifies air velocity at a heating/cooling diffuser.



those people required to work in them. To this end, Turner asked the energy monitors to select a time and place where their supervisory personnel could be briefed by Facilities Engineering

tabulated as of December 31st indicated a 9.3% electrical usage reduction over the same period one year ago; a 24% reduction in heating fuel and a 21% reduction of gasoline consumption.

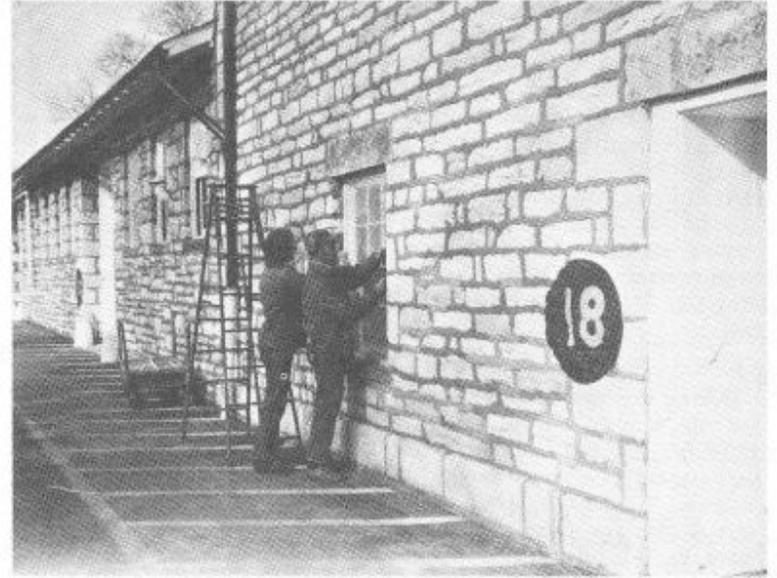


Bill Adams and Mike Galloway measure air flow in the supply duct at Building 12.



The FE briefing team (standing left to right) Charles Turner, Ernie Wolff and Charlie Schmidt explain energy conservation measures to supervisors in an effort to better inform the work force about the reasons behind conservation measures in specific areas. Supervisors also had the opportunity to ask questions about their areas of responsibility.

Photos  
by  
Earl Reed  
Ed Mullen  
Bob Wolverton



Tony Fecurka and Buddy Ennis install plastic sheeting on Building 18 windows to conserve heat.