

40-Year Service Award To Booker Armstrong



BOOKER T. ARMSTRONG, PDDM is presented with a 40-year Federal Service Certificate and tie tack by Colonel St. Clair, DMAAC Director, during ceremonies July 23.

His Federal career began with his enlistment in the U. S. Navy in March 1936. During his ten years military service he was assigned to the USS New York and made an around the world cruise via England, France, Germany, Spain and Panama. He transferred to the Fleet in 1937 and was assigned aboard the Minneapolis (Heavy Cruiser) stationed in Pearl Harbor with the Scouting Force, Hawaiian Detachment from 1937 thru 1940. He was assigned to the USS Mount Vernon on convoy service during WW II. He received his discharge in March 1946 with rank of steward 2/C.

He continued his Federal career as a civilian at the Veteran's Administration, District Office in March 1946 where he was assigned as a laborer/warehouseman and later promoted to chief storekeeper. When the facility was transferred to Denver in 1952 he did not move with them but transferred to DMAAC. He was assigned to the Distribution Division as a warehouseman and was a warehouse foreman at time of his resignation in July 1967. He was rehired in November 1967 as a warehouseman and is presently assigned to the Production and Distribution Department, Material Branch.

FEW Chapter Hears Director, Honors Outstanding Person

Orienteer

DEFENSE MAPPING AGENCY AEROSPACE CENTER

Vol. XVIII, No. 16

August 6, 1976

DMAAC GSS Affected

DMA Geodetic Surveys Mission Consolidated Under Topo Center

The Department of Geodesy and Surveys of the DMA Topographic Center became a reality Sunday, culminating many months of intensive study, evaluation and planning. The new department consolidates DMA geodetic surveys mission and resources of the Aerospace Center and the Topographic Center under operational management of Topo Center.

The new department embodies the former Geodetic Survey Squadron of DMAAC at F.E. Warren AFB, Cheyenne, Wyo. and the former DMATC Department of Geodesy and the Geometrics Division of the TC Department of Cartography.

Air Force Col. Robert B. King will head the Department.

In the new organization, conventional survey functions will be consolidated into a single division located at Cheyenne, Wyo., and called the Geodetic Survey Squadron (GSS). This consolidation involves the transfer of survey acquisition activities and related data reduction activities at DMATC to the GSS Division. In particular, the functions of the data acquisition, data reduction and equipment maintenance associated with horizontal and vertical control surveys, land gravity surveys, and Doppler point positioning surveys using the JMR will be located at Cheyenne.

Affected in this transfer from the Washington, D.C. area to Cheyenne, Wyo. will be personnel from the Survey Computation Section, Data Reduction Branch of Geodetic Control Division and the Geodetic Control Surveys

Branch and Equipment Support Branch of the Surveys Division from the TC Department of Geodesy.

Air Force Col. Lyndon L. Sheldon, commander of the DMAAC GSS, will continue to command the new Geodetic Survey Squadron.

The satellite tracking activities will remain in the Washington, D.C. area since they are unique and generally independent of conventional survey projects and are dependent upon coordinated activities between the headquarters and other Washington, D.C. based agencies.

DMAAC Director, Col. James St. Clair, attended special ceremonies this week in Wyoming to commemorate the transfer of the DMAAC Squadron to the new Department of Geodesy and Surveys. During the ceremony he



presented the squadron with a special plaque signifying their outstanding accomplishments in the support of the Aerospace Center mission. The squadron had been a part of DMAAC since the creation of the Defense Mapping Agency in July 1972.

AF Col. King Hands

by Maj. Phillip Wilder

The Arsenal '76 Chapter of the Federally Employed Women (FEW) heard DMAAC Director Col. James St. Clair tell the members and guests at the recent officers' installation and awards banquet that DMAAC was striving to find the right "persons" qualified to do the many technical jobs involved in mapping. "We are interested in people," the director said as he talked to the group on the woes and challenges facing women. "We, as an agency, will continue to improve programs so that discrimination in any form is eliminated."

During the speech the Director complimented the chapter on the great strides they have made in their first year to assist the women of the Aerospace Center. Particular praise was directed toward Charlene Gill, DMAAC Women's Program Coordinator and President of the FEW Chapter.

The highlight of the meeting was the first annual FEW Arsenal '76 Chapter Awards presented by Phyllis Cooper, committee chairwoman.

The membership nominated Paul Atkins, Jack Harris, Nelson Clark and Peggy Matkin as supervisors who are most readily identifiable for including human goals in the performance of their jobs. A later membership vote awarded the Most Outstanding Person award to Peggy Matkin.



Peggy Matkin (left) receives the Arsenal '76 Chapter of FEW Most Outstanding Person award from Phyllis Cooper during the recent chapter meeting.

The FEW Chapter's Finest Award was given to Barbara Savalik for her tireless efforts and sacrifice, particularly in increasing women's awareness of the current legislative processes.

The meeting heralded the beginning of a new year for the Arsenal '76 Chapter that will include nine scheduled meetings filled with valuable learning opportunities for women to express themselves, to demonstrate their abilities, and to develop themselves to accept true equality.

Savings Bonds

Help Build

America

AF Col. King Heads New Organization

Colonel Robert B. King, U. S. Air Force, has been named chief of the new Department of Geodesy and Surveys of the Topographic Center.

The colonel is a graduate of the U. S. Military Academy at West Point and later received his master's degree from Ohio State University in Geodetic Science.

He has been involved in mapping and charting throughout his career.

Colonel King flew aerial cartographic missions in Ethiopia in 1966 and completed a combat tour in Southeast Asia in 1967.

He worked as a staff officer for Military Airlift Command (1967-69) reorganizing the aerial mapping programs for Ethiopia, Liberia and Southeast Asia, and validated requirements for geodetic surveys worldwide.

He staffed Air Force intelligence programs while serving in the Reconnaissance Division of the Air Staff Operations (1969-71) and served with the Joint Chiefs of Staff (1971-72) reviewing European Command operations and Berlin contingency plans.

Colonel King came to DMA as Chief of the Aerospace/Missiles Branch of Requirements in 1973.

The Old Army "Pot" Is Changing

Troops in the field have always had something to complain about. One major item has been wearing the "steel pot". It now appears that some relief may be on the way.

Soldiers at Ft. Benning, GA are scheduled to begin testing a new helmet for troop use this September.

The new helmet which strongly resembles the old WW II German helmet is considered a "radical design".

The new "pot" covers more of

the soldier's head, supplies better protection and offers a better fit and more comfort.

The new piece of test gear is not suitable for boiling the morning shaving water. The test helmets are made of two materials: laminated 'Kevlar' a new fiber, and fiber glass. Unlike the current helmet, the new model does not have a liner.

This helmet would give the troops the first new combat headgear in more than 35 years.

PART II

How Much Can You Afford?

Editors Note: This is the second in a series of five articles designed to assist the home buyer. Next issue Part III will be "Shopping for a Mortgage".



Figuring out how much money you can afford to spend on the purchase of a home is no easy task. To help you determine your home-buying power, the National Association of Home Builders (NAHB) has provided this chart, which should make your calculations easier:

• What Can You Spend Monthly for Housing?

1. Your Average Monthly Income

Take-home pay (gross pay less taxes) \$ _____
 Rents, dividends, interest _____
 Other income _____
 Net Average Monthly Income _____
 (add) (1) \$ _____

2. Your Average Monthly Non-Housing Expenses

Food, household supplies _____
 Clothing _____
 Medical costs and insurance _____
 Life and casualty insurance _____
 Automobile and insurance _____
 Education _____
 Commuting _____
 Installment payments/interest charges _____
 Recreation, hobbies (adjust realistically) _____
 Telephone _____
 Contributions, dues, fees _____
 Personal (cleaning, barber, for example) _____
 Savings/investment program (adjust realistically) _____
 Total Average Monthly Non-Housing Expenses (add) (2) \$ _____

3. Your Monthly Income Available for Housing

Net average Monthly Income (total 1) \$ _____
Subtract Non-Housing Expenses (total 2) _____
 Average Monthly Income Available for Housing Expenses (3) \$ _____

4. Average Monthly Housing Expenses (of the house you wish to buy)

Bits And Pieces

From the Black Book:

Oh, where has the summer gone? Here it is the 6th of August and the neighbors are already talking about their Labor Day plans. School begins in another week and a half. The wife has been busy making school clothes and trying to find shoes that won't wear out in the first few days of recess on the asphalt playground. The kids are already talking about what they can do to get the new teacher off to a "good" start. One hears such suggestions as green snakes in the desk drawer; frogs in the lunch room and letting the neighborhood dog in the gym. Kids haven't changed. I remember when my classmates use to vie for the window seats because the hackberry tree was right outside and a quick reach out the window gained a handfull of the best throwing material in the school. Of course, I never took part in such things.

-0-

Sergeant Hall over in the Security Office has asked me to remind all those assigned to the St. Louis DMAAC installations that only one bumper sticker is now authorized and that's the small Air Force decal. The parking "A", "B" and "C" stickers should be removed along with any old decals that might be sticking around.

dlb...

How's Your Know How?

JSCM To Captain Drezins



Newly arrived Army Captain Herbert Drezins, SO, receives the Joint Service Commendation Medal from DMAAC Director, Col. James St. Clair, during special ceremonies. Captain Drezins was cited for his exceptionally meritorious service while serving as Special Liaison Officer to both the Commander, Allied Land Forces Southeastern Europe and Commander, Sixth Allied Tactical Air Force during his last assignment.

Travel/Work Time Defined for Civilians

The Civil Service Commission has defined the types of travel that count as work hours and which should be included along with other work time in computing overtime pay for Federal employees covered by the Fair Labor Standards Act. It applies to many lower grade general schedule employees and to blue collar workers. The rules are retroactive to May 1, 1974.

Generally, under the fair labor law:

*All travel time during regular working hours is considered hours worked.

*All travel time which involves

travel is performed during regular working hours on regular workdays or during corresponding hours on nonwork days.

However, such travel is not considered hours worked if it is performed outside of these hours on any of the seven days of the week.

Some travel time cannot be counted as work hours. This includes normal home-to-work travel, bonafide meal periods during travel, time spent waiting at a common carrier terminal in excess of normal waiting time, sleeping time while traveling under certain conditions, and periods when an

Personal (cleaning, barber, for example) _____
 Savings/investment program (adjust realistically) _____
 Total Average Monthly Non-Housing Expenses (add) (2) \$ _____

3. Your Monthly Income Available for Housing
 Net average Monthly Income (total 1) \$ _____
 Subtract Non-Housing Expenses (total 2) _____
 Average Monthly Income Available for Housing Expenses (3) \$ _____

4. Average Monthly Housing Expenses (of the house you wish to buy)

Mortgage repayment (principal and interest) \$ _____
 Comprehensive insurance for fire, theft, flood insurance (if not included in mortgage loan repayment) _____
 Property taxes (if not included in mortgage loan repayment) _____
 Utilities (heating, electricity/gas/oil, water) _____
 Maintenance and repairs (allow one percent or more of the price of your home per year) _____
 Other monthly housing expenses _____
 Average Monthly Housing Expenses (add) \$ _____

• **How Much Down Payment Can You Afford?**

5. Available Funds

Equity in present home/lot \$ _____
 Savings, savings certificates _____
 Investments/mutual funds (current value) _____
 Insurance (cash surrender value) _____
 Other available funds (such as a personal loan) _____
 Total Available Funds (add) _____
 Subtract Amount You Must Keep in Reserve _____
 Adjusted Total Available Funds (a) _____

6. Expected Cash Expenses

Cash costs for closing and settlement _____
 Furniture, furnishings (if any) _____
 Alteration, repair, landscaping (if any) _____
 Moving expenses _____
 Other expected expenses _____
 Total Expected Expenses (add) (b) _____

Now subtract total (b) (your expected expenses) from total (a) (your available funds) to get amount you can afford to spend for your down payment: (c) \$ _____

• **Subtract the down payment from the sale price of the home you wish to buy and you will know how much of a mortgage you will need to finance.**

employees covered by the Fair Labor Standards Act. It applies to many lower grade general schedule employees and to blue collar workers. The rules are retroactive to May 1, 1974.

Generally, under the fair labor law:

*All travel time during regular working hours is considered hours worked.

*All travel time which involves the performance of work while traveling is hours worked, including travel as driver of a vehicle.

*All travel time as a passenger on a one-day assignment is hours worked.

Travel time as a passenger which results in employees being away overnight from their official duty station is hours worked - if

Some travel time cannot be counted as work hours. This includes normal home-to-work travel, bonafide meal periods during travel, time spent waiting at a common carrier terminal in excess of normal waiting time, sleeping time while traveling under certain conditions, and periods when an employee is relieved from duty while traveling.

Some Federal employees, generally GS-9 and above professional and administrative types, are exempt from the fair labor standards proviso. They are covered by travel/work guidelines in Title 5 of the U. S. Code.

Some Federal employees, generally GS-9 and above professional and administrative types, are exempt from the fair labor standards proviso. They are covered by travel/work guidelines in Title 5 of the U. S. Code.

How's Your Know-How?

1. Who gave the first demonstration of plane-shipboard operations? When? Where?
2. Six states border Oklahoma. Can you name them?
3. Who said "Praise the Lord and pass the ammunition"?
4. The North Atlantic Treaty Organization was signed April 4, 1949. Name the 12 signatory powers?
5. What is calligraphy?

(Answers to Quiz)

1. Eugene Ely, flying a Curtiss Fusher, landed on board the cruiser Pennsylvania in San Francisco Bay on Jan. 18, 1911; later took off and returned to his land base.
2. Texas, New Mexico, Colorado, Kansas, Missouri and Arkansas.
3. Navy Chaplain Howell M. Forsy at Pearl Harbor on Dec. 7, 1941.
4. The United States, the United Kingdom, Belgium, Canada, Denmark, France, Iceland, Italy, Luxembourg, the Netherlands, Norway and Portugal.
5. The science of penmanship.

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. Opinions expressed herein do not necessarily represent those of the DOD.

Col. James H. St. Clair
Director

David L. Black
Chief, Public Affairs Office
Editor

June

Promotions

The following people received promotions during the Month of June: Auda M. Adler, GS-4; Randal W. Callies, GS-11; Christine M. Enright, GS-4; Ronald D. Forsythe, GS-11; Francis Gotay, Jr., GS-12; Sharon A. Hertel, GS-6; 9-Louis W. King, WP-18; John W. Lamons, GS-11; Patrick B. Michael, GS-11; Robert C. Moehl, WP-18; Gayle A. Powers, GS-6; Earl I. Smith, GS-6; Olin B. Spyers, GS-12; Earl R. Underhill, GS-11; and Clarence B. Windsor, WG-10.

-Military-

TSgt. Max R. Tubbs, AA, has been selected for promotion to Master Sergeant.

DoD Controls

Overseas Schools

Overseas dependent schools are being placed under control of the Office of the Secretary of Defense. In the past overseas dependent schools were run by the individual services.

The entire system will be placed under control and administration of the Director, Department of Defense Office of Overseas Dependents' Education, Assistant Secretary of Defense for Manpower and Reserve Affairs.

There will be three geographical school areas called the Department of Defense Dependents' Schools, Europe, Pacific and Atlantic. Civilian personnel assigned to manpower spaces of the school system will be transferred July 1 to the rolls of the Office of the Secretary of Defense.

Air Academy Cadet Tours



Cadet Steven Jonak of the U. S. Air Force Academy receives a briefing on cartography from Earl Hill during the cadet's recent visit to the Center. The visit was part of the DMA program of providing interested young officers of the service academies with an opportunity to learn more about MC&G.

John Miller Family In News

The family of John Miller, MDCO, has been making the news recently. Son Christopher recently graduated from the University of Missouri Law School and upon completion of the bar examina-

AFA Meet

The Greater St. Louis Chapter of the Air Force Association will meet August 20th to hear Dave Evans, Deputy Director of Security, Plans and Requirements, at Air Force Logistics Command. The meeting will be held at

tion will become a member of a Doniphan, Missouri law firm.

Son Bernard Miller has been accepted by the Institute de Filologia Hispanica of Saltillo, Mexico on a scholarship to study Spanish for six weeks. Bernard will be a senior at Kirkwood High School in September. The program included six weeks of extensive classroom work in Spanish, special tutoring in various Mexican dialect, and living with a Mexican family for the entire course.

Son-in-law 1st Lt. Douglas

Interim Metric Policy Guidance

by CMSgt. Frank Weatherly

During June 1975, Deputy Secretary of Defense William P. Clements, Jr., has said the Department of Defense (DOD) will use the metric system in all activities consistent with operations, economical, technical and safety considerations.

Metrics will be considered when buying supplies and services, and particularly in the design of new material.

Metrics will be considered when there is a specific military need, such as for material for joint use with allied nations, and for material with potential for foreign sale or joint-production programs.

Metrics will also be considered in areas where industry has made

significant progress in metric conversion and production facilities are available, and in areas where defense-industry preparedness or defense-production readiness may be enhanced.

Existing designs using U.S. customary (inch-pound) units will be converted to metric units only when necessary or advantageous. Normally, the system of measurement in which an item is originally designed will be retained for the life of the item.

Technical reports, studies and position papers now include metric units of measurement in addition to, or instead of, U. S. customary units. Use of dual dimensions, both metric and U.S.

customary dimensions, on drawings is avoided unless it is beneficial. However, use of tables to translate dimensions from one system to the other is acceptable.

DOD representatives participate in developing national and international standards. International metric standards are used to the maximum practical extent. However, if a U. S. standard is established with greater definition and restriction than a prevailing international standard, the U. S. standard will apply.

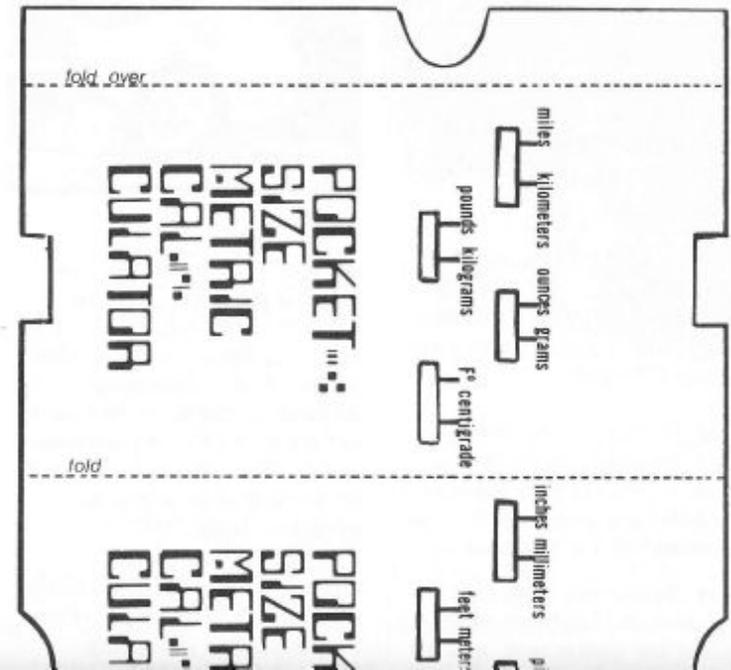
DOD programming and budgeting actions include resources to support conversion to use of metric units.

NASA Seeks Astronauts

The National Aeronautics and Space Administration (NASA) plans to recruit additional astronauts, beginning this summer, to serve as flight crewmembers of the space shuttle.

Plans call for civilian and military selections with a goal for having qualified minorities and women among the newly selected astronaut candidates. Screening, evaluation, and physical examination of applicants are planned for 1977, with the selection of candidates expected late in 1977.

Candidates will be assigned to NASA's Johnson Space Center, Houston, Texas, in 1978 for a two-year evaluation period. New astronauts will be selected from the group of candidates in mid-



Dear Consumer

By VIRGINIA KNAUER

*Special Assistant to the President and Director, Office of Consumer Affairs
Department of Health, Education and Welfare*

Citizens Band (CB) radio equipment has become one of the fastest-selling items in the electronics market. Already an estimated 11 million CB transmitters are in operation in the U.S., and by the end of 1976, sales of CB equipment are expected to hit the billion dollar mark.

Although millions of consumers have joined the world of CB, many still feel unsure about buying the radio equipment—particularly because there are so many kinds of units to choose from and because they are so easily stolen from cars. The Federal Communications Commission

(FCC), which regulates CB transmissions, and the CB Center of America have these suggestions about buying and using CB radios:

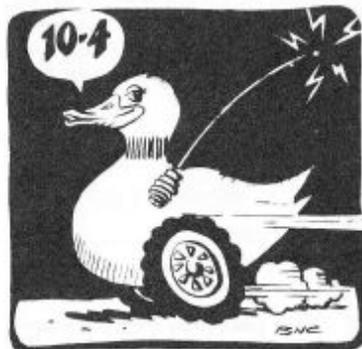
- Decide on the channels and the range to meet your needs. Sets ranging from \$140 to \$180 are generally the most economical for beginners.

- Before you buy, check warranties. Find out what parts are guaranteed and for how long. Compare

- Before you buy the set, take it to a local service center to have it checked by a technician.

Once you have purchased a CB unit—either old or new:

- Register with the FCC and get a CB license. FCC has lowered the CB licensing



fee from \$23 to \$4 and has made it easy for CBers to register. However, FCC is also cracking down on those who do not. CBers operating without a license—which is a violation of FCC regulations—can be fined up to \$10,000 or be sentenced to a year in prison or both.

- Get a copy of and observe FCC's CB regulations. Copies of USC Title 47, Part 95 (FCC rules governing Citizens Band) are available

CTS Triples Blood Drive Quota

The Cartographic Technical Squadron has tripled its annual blood drive quota this year as 105 volunteers were on hand to make the drive a big success, considering the units quota was 35 pints.

CTS Commander, Lt. Col. Swanson remarked, "The CTS has a long record of exceptional participation in its blood drives so we had high goals to shoot for. Our success rested on the generosity and team spirit of everyone associated with the squadron, military, civilian, and dependents, but particularly on the initiative and determination of our blood drive NCO, Sgt. Ken Dixon, who did a tremendous job in motivating this outstanding effort."

Appointed To Human Relations Commission

Frederick Hodes, CD, has been appointed to the St. Louis Human Relations and Equal Opportunities Enforcement Commission, according to an announcement by the City of St. Louis.

The commission of fifteen members serves as a review board to aid the St. Louis Civil Rights Enforcement Agency in the settlement of complaints of discrimination based on race, age, sex, religion or national origin.

Women's Club

Maj. Wilder Receives Diploma



DMAAC Director, Col. James St. Clair presents the Air Command and Staff College diploma to Maj. Phillip Wilder, (PP). The major recently completed the nonresident seminar program offered by the college. "This achievement attests to your superior professionalism and high scholastic ability, and I am extremely pleased to have an individual of your caliber assigned to this Center," said the colonel during the presentation.

National Historic Register Certificate Presented



how long. Compare warranties.

• Equip your unit with removable mounts—or a detachable antenna. CBs are a target for theft, and a CB antenna marks your transmitter for a "hit."

If you are in the market for a used CB set:

Citizens Band) are available from the Superintendent of Documents, Government Printing Office, Washington, DC 20402, for \$5.35. If you have any questions about CB rules or licensing, write to Amateur and Citizens Division, Federal Communications Commission, Washington, D.C. 20554.

Cold Viruses Appear Not So Contagious

fluids. Although it sounds like an uncomfortable procedure, Dr. Dick says that nasal washing actually "makes the person feel better."

Dr. Dick's study of 24 married couples used laboratory-grown virus to inoculate one partner of a cold-free couple. This enabled him to control and measure symptoms, virus shedding, and type and amount of contact.

A different group of twelve volunteers (donors) were inoculated with a slightly different virus. Five of the twelve (41 percent) transmitted the virus to their spouses. All five transmitters spent at least 122 hours with their spouses during the observation week, while six of the seven who did not transmit the virus spent less than 122 hours at home.

Twelve other subjects received yet another cold virus. Four of these transmitted the virus to their spouses and, again, ability to transmit was related to amount of time spent together at home during the week.

The investigators also found a strong relation between virus shedding (usually accompanied by severe cold symptoms) and ability of the donor to transmit the virus. Presence of virus on the hands and around the nostrils of a donor also related strongly to transmis-

To Meet

The DMAAC Women's Club will hold its first luncheon of the season at Bentley's, 11915 Manchester Road, on Thursday, September 9th at noon.

All wives, civilian and military, or employees of DMAAC, are welcome to join the group or be a visitor for the luncheon.

Anyone wishing to attend, call Mrs. Kenneth Swehla, Membership Chairman, at 631-5569 for reservations.



The official presentation of the State of Missouri certificate placing the St. Louis AFS on the Register of National Historic Places is made to Colonel St. Clair by Jerald Stepenoff of the Missouri Department of National Resources. The property was placed on the Register in January 1975 and formally dedicated this past May. The state only recently decided to issue a special certificate.

Bicentennial Coin Available

A Bicentennial Coin, designed especially for the Federal Civilian and Military employees of the Greater St. Louis area under a joint project of the Federal Executive Board and Federal Business Association, is now displayed in the Lobby of Building 36. The coin is available for purchase from AVSCOM, Benefits and Services Office, phone numbers 268-2460 or 268-3103. Cost

of the coin is \$3.50 and coin with chain is \$5.00.

The art work on the coin depicts 200 years of St. Louis history; and 18th Century Fort San Carlos, the 19th Century Courthouse and the 20th Century Arch.

This coin is made of nickel silver and all inscriptions and art work are in high relief. Only 5,000 of these coins were minted and the mold has been destroyed.

HEALTH & SAFETY

In spite of popular impressions, cold viruses are not easily transmitted from one person to another, according to University of Wisconsin scientists. This resistance to virus transmission has led the scientists to suggest that a simple device, such as facial tissue treated with a virus-killing substance, may help break the chain of rhinovirus (cold causing virus) transmission.

The scientists did not understand why persons with mild colds were unable to transmit their infection to their spouses, even with many hours of contact, since only minute amounts of lab-grown virus had been required to infect the donors. But whatever the reason for resistance, the scientists feel that it is encouraging from a preventive standpoint.

In their study of person-to-person transmission of rhinoviruses (the first of its type), Elliot C. Dick, Ph.D., and his associates found that the major factors involved were severity of the cold sufferer's symptoms, amount of time spent with the ill person, and amount of virus shed.

Virus shedding is measured by washing the nasal chambers with a solution, which is then examined to determine how much virus is pouring out of nasal cells into the surrounding