

Presidential Letters to Four Employees For Suggestion Program Efforts

Four Aerospace Center employees were among the first to receive special letters from President Jimmy Carter for their contributions to the government suggestion program.

The four—Doyle Bailey, AC; Lawrence Radick, AC; William Coffelt, SD; Alfred Graham, PD—were presented the Presidential letters in special ceremonies held by Colonel St. Clair May 12th.

In the letters, which were framed for presentation, the President said, "Your contribution to the improvement of government operations was brought to my attention recently. I want you to know how much I appreciate your interest and your efforts."

Bailey had suggested a new method to access and read maximum terrain elevations in specified 10 minute by 10 minute cells rather than accessing all cells within a photogrammetric stereoscopic model. The measurable benefits resulting from the adoption of the suggestion amounted to \$14,848.35.

Radick suggested that computer programs be prepared at DMATC that would automatically change data for large groups of charts when the change is the same for all

the charts, thus avoiding the expense of preparing transcript sheets and keypunching. First-year measurable benefits of the suggestion amounted to \$5,409.

Coffelt suggested that warning signal devices be installed in some special equipment to inform operators of failure by the machine, thus resulting in improvement in equipment operation. First year measurable benefits resulting from the suggestion are \$5,394.60.

Graham suggested that the number of photographers assigned to the Photo Litho Division on the day shift be increased with corresponding reduction of photographers assigned on the night shift, thus reducing night differential and providing better service during the day. The benefits resulting from the suggestion amounted to \$6,430.32.

The Presidential Recognition Program provides for the President's personal letter of commendation to be presented to civilian and military personnel for contributions that were approved after January 1977, that are beyond job requirements, and that result in first-year measurable benefits of \$5,000 or higher, or represent exceptional achievement in specific areas.



Doyle Bailey



Lawrence Radick



Orienteer

DEFENSE MAPPING AGENCY AEROSPACE CENTER

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The Employee Assistance Program A "People" Program

"The Employee Assistance Program (EAP) is a people program—it offers help for personal problems affecting work performance . . . such as medical, psychological, social, or spiritual problems. "The objective is to retain valued employees by

alcoholism. Outranked only by heart disease and cancer, alcoholism is the third major cause of death in this country. Like kidney disease and diabetes, it has no known cause nor cure, it is progressive, and it leads to death. Yet it can be diagnosed, arrested

hundreds of other definitions for the illness—each attempting to pin it down in some way. The one definition which has gained the greatest acceptance is perhaps the

Continued Pg 2

Dicker Receives



William Coffelt



Alfred Graham

TC Retiree Named First Federal Retiree of Year

Dr. Irene K. Fischer, internationally recognized geodesist who retired from the Defense Mapping Agency Topographic Center last year, has been selected as the first Federal Retiree of the Year, the National Association of Retired Federal Employees announced.

Chosen from among nearly 30 nominees of Federal agencies, Dr. Fischer and nine other finalists will be honored at a reception in Washington, D.C. the end of this month. Each will receive a plaque, and Dr. Fischer will receive a cash award of \$2500 from NARFE, sponsor of the government-wide competition.

Dr. Fischer, who began a second career in 1952 after years of teaching mathematics in her native Austria and her adopted homeland, was chosen for the top award for research on the size and shape of the earth which resulted in more accurate mapping of the earth and contributed importantly to national defense, the space program, and advancement of scientific knowledge.

Her work characteristically



dealt with "first" on the frontier of her field, providing unconventional solutions to unusual problems. She developed the world geodetic datum used by NASA in the Mercury, Gemini and Apollo projects and developed a continental geodetic datum for South America, according to her nomination.

A prolific author, Dr. Fischer has written more than 100 scientific papers and several books.

problems. The objective is to retain valued employees by restoring them to good health and full job efficiency," says Lou Luchini, and he should know for he serves as the Center's Employee Assistance Counselor.

The keys to the success of the program are identifying an employee with a problem, referring him to the Employee Assistance Counselor, determining the problem, and guiding the employee to the proper community resource for help and treatment. "All treatment is referred," explains Luchini. "Our position is that we are not in the treatment process and we don't want to be. There are many local organizations that perform those services as their primary jobs." One of the local organizations that is available to Center employees with alcohol problems is the Hyland Center (see accompanying article and photographs of the Hyland Center Program on page 4).

Luchini admits that not all of the people he sees have a drinking problem, but the majority do. It is his job to help the people who come to him to face their problem honestly and consent to seek help. It is clearly understood that the employee is responsible for his own recovery and for improving his job performance, but that he will have support and total confidentiality throughout his recovery and beyond.

According to national statistics, 80% of all employee problems are alcohol related. Therefore, the EAP is currently placing emphasis on drinking problems and

progressive, and it leads to death. Yet, it can be diagnosed, arrested, and treated. In fact, a recovered alcoholic's chances of living a normal, healthy life in all respects are better than those recovering from most other catastrophic illnesses.

There are an estimated 136,000 alcoholics in the St. Louis metropolitan area, and since normally four other lives (average family) are directly affected by every alcoholic, well over 500,000 people (or about 20 per cent) of this area's population are touched by the disease.

It is generally believed that six to 10 per cent of the work force in this country has a drinking problem, and that problem is costing our national economy \$25 billion a year.

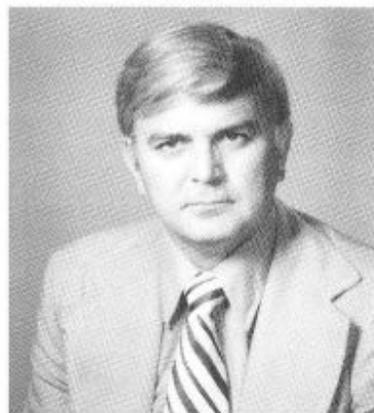
Of this amount, over \$9 billion is lost production, \$8 billion health and medical costs and \$6 billion motor vehicle accidents. (Of the 45,000 traffic fatalities, nationally, about 50 per cent are alcohol-related.)

In terms of lives, that is only the beginning. Alcoholics have a 58 per cent greater suicide rate than non-alcoholics.

The alcoholic is reported to have a life span which is 12 years shorter than the non-alcoholic. More important, according to Metropolitan Life Insurance Co., mortality from alcoholism is not only substantial but has been increasing at an alarming rate.

Medically speaking, alcohol is a drug and alcoholism is the physical and psychological addiction to that drug. But there are literally

Decker Receives 15 Promotion



B. Louis Decker recently was informed of his promotion approval to a GS-15 position in the Advanced Technology Division of the Directorate of Systems and Techniques.

Decker has been with the Center since 1958 when he was assigned to the Research Department after attending Cartographic Training School.

He attended Ohio State University under the Center's long-term-fulftime training program and later received his Master in Geodesy from that institution. A native of Arkansas, Decker was assigned to the Plans, Requirements and Technology Directorate prior to the formation of the new S&T Directorate.

His military service includes duty with a special intelligence unit assigned to the Transportation Corps from June 1954 to June 1956.

Gobbledygook

YOU Can Solve the Problem

Tired of reading "Governmentese" and "gobbledygook" in the letters and memos that come across your desk? You can help eliminate the problem by making your own correspondence clear and understandable.

The next time you write a letter, particularly to someone unfamiliar with your organization's acronyms and buzz words, keep these pointers in mind:

- A good letter is pleasant and human. It sounds as if it was written by a human being to a human being. Except for very formal occasions, your letter should achieve a conversational tone.

- Use "we" and "you" and other personal references. They aid understanding and have a friendly sound.

- Avoid using the language of regulations, which were designed for legal purposes. You should master the subject matter and be able to explain it in your own words.

- Be complete. Your letter should cover everything pertinent to the inquiry. A second inquiry from the same person asking for more information, or asking for an explanation of your first letter, in most cases shows that you didn't do your job satisfactorily. Handling that second inquiry costs money, too.

- Use the familiar word instead of the \$50 word. Technical words and phrases should be saved for a technical audience; if there are no substitutes, use the technical words and then define them.

- Make the sentences and the paragraphs short.

- Favor the active voice over the passive. "We received your letter" is superior to "Your letter was received." Reading a series of passive constructions is like driving to the grocery store in reverse gear—you get there eventually but it takes unnecessary time and effort.

- Don't delay in getting to the point. There is no need for a long windup or for referring at length to the letter you are answering.

Asbestos

The ORIENTOR is an official newspaper, published bi-weekly on

Bits And Pieces

From the Black book:

There is an old adage that says, "If you haven't been there you don't really know," or something like that. It's one of those that you never quite put much faith in until the point is brought home in an unsuspected way. So it was with me the last week. I've gone in and out the steps and doors of Building 25 for a number of years and traversed the parking lots and parade ground between my building and Building 36. Never in all those years did I notice the uneven ground, the rough curbing, the small and large step size, or the doors that close before you get in. I never noticed them because I've always been able to maneuver quickly and without regard to the path beneath my feet. A few days ago my tennis playing took a hiatus when my ankle decided to bend in an abnormal manner. Since that time I've been using crutches and believe me, until you've been there you don't know. I've found every small rock on the parking lot. I've found the part of the curb that crumbles and the part that is solid. I've found the slippery parts of the hall and the sticky parts. I've found that not all the steps are the same size and not all the doors open easily from a crutch length distance. And I've found that there is a definite art to getting in an automatic closing door before the darn thing shuts on your foot.

The whole point of this is to re-

Carto School Grads



Recent Cartographic Training School graduates in class 78-E were: (left to right), Gary Kerr, Southern Illinois University; Jeffery Elmore, South Dakota State University; Carroll Boswell, Washington University; Beverly Earles, Illinois State University; Stanley Allen, Southern Illinois University; Marc Sholten, South Dakota State University; Nancy Hurst, Michigan State University; Andrew Podleski, University of Missouri; Joyce Noland, Southwest Missouri State University; Mark Smith, Florida State University; Norma Hilgemyer, Southern Illinois University; Greg Dillow, Southern Illinois University; Rosanne Petru, Fontbonne College; Leo Marks, University of Arkansas; Diana Mascaro, Washington University; Robert Brown, University of Texas; Greg Schmieding, South Dakota State University; Joseph Smith, Southern Illinois University; Barry Papke, Indiana University.

Nine Selected For 14 Promotion

Eight Aerospace Center and one Hydro Center employees have been selected for promotion to GS-14 positions within the St. Louis component of DMA.

Selected were: David H. Alspaugh, Supervisory Physical Scientist, GDT; James E. Johnson, Physical Scientist, STA; Mary Sue

In Sympathy

Edward J. Alexander, ACK, died May 10. He had been at the Kansas City Office as an administrative officer since May of 1976.

Services were held May 16 with

Hazard Program

The Department of Defense will participate in a nation-wide Department of Health, Education and Welfare effort to alert the public on asbestos-related health hazards.

The program will inform the public on the hazards of asbestos exposure, the conduct of appropriate further studies and related matters.

Information on asbestos health hazards is available by calling or writing offices of the National Cancer Institute's Cancer Information Service. The service has a toll-free telephone hotline 800-638-6694.

In addition, there are 20 regional cancer centers in 20 states and the District of Columbia. Toll-free numbers for the centers are 800-555-1212, except D.C., which is 802-232-2833. Letters should be sent to: Asbestos, National Cancer Institute, Bethesda, MD 20014.

Additional information may be obtained from local offices of the American Cancer Society or American Lung Association.

Officials said that attention has focused on past exposure of workers in the nation's private and government-operated shipyards during World War II. Asbestos is used in the construction industry, steam power plants and automotive repair facilities.

Friday 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 represent those of the DoD.

Col. James H. St. Clair
Director

David L. Black
Chief, Public Affairs Office
Editor

mind you, and I, that what we take for granted; what we perceive as no problem, is not that to all people. Fortunately my sojourn on the crutches will be short lived, but there are those around us who must continue to fight the battle of maneuvering in a world of obstacles.

dlb . . .

Ealum, Physical Scientist, STA; William D. Cannell, Physical Scientist, STA; Marshall B. Faintich, Physical Scientist (Digital Data), STT; Jack T. Wallace, Physical Scientist (ADP), STT; Bruce Opitz (DMAH-C), Physical Scientist, PRRS; Robert H. Hall, Cartographer, PRN; and Fred A. Hufnagel, Cartographer, STT.

Services were held May 16 with interment at Ft. Leavenworth, Kansas.

He is survived by his wife Shizue and a daughter of Prairie Village, Kansas.

diagnosticians, nor are "witch hunts" for people with drinking problems encouraged.

"An employee's private life or drinking habits are none of our business," he says. "But it is our business if a person is falling down on the job, not showing up for work, or becoming a burden rather than a contributing factor to his department. Our supervisors only discuss an employee's job performance with him; they don't attempt to determine what the underlying problem is."

The Employee Assistance Program is important, effective, and necessary; but those involved in administering the program at the Aerospace Center admit that they are touching only the "tip of the iceberg." All employees who have or suspect a personal problem that is damaging to their health and/or contributing to deteriorating job performance are encouraged to seek counseling and information on a confidential basis by contacting the Employee Assistance Counselor, the Medical Services Division (Dispensary) or by dialing "TALK" Ext 8255. Do that as soon as you can. This Center doesn't want to lose you.

Employee Assistance A "People" Program

(Continued from Pg 1)

simplest: "If a person is experiencing a problem in any area of his or her life because of alcohol, alcohol is the problem; and that person is an alcoholic."

One of the built-in characteristics of the illness is the denial that one is suffering from it. Breaking through "the merry-go-round named denial" is the first step in saving an alcoholic's life. No treatment will be effective unless the person suffering from the disease wants to stop drinking. Experts, doctors, and recovered alcoholics agree that admission of the problem must come first.

All too frequently, though, an alcoholic cannot admit his problem to himself until he is in a very advanced stage of the illness; and then it may be too late. An important factor in the fight against alcoholism is early identification of the disease, followed by encouraging the alcoholic to seek treatment. Neither task is easy,

but one encouraging note is that both can be most effectively tackled in the person's work setting. For it is on the job that the symptoms of the disease first become obvious to others.

The Aerospace Center recognizes alcoholism as a health problem that affects the behavior and job performance of its members at great expense to the individual and the Center mission. It is Center policy to prevent alcohol abuse and alcoholism among its members; to attempt to restore to effective functioning persons with problems attributable to alcohol abuse; and to insure the humane management and administrative disposition of those who cannot be restored or do not remain restored. Center standards of behavior, performance, and discipline must be maintained. A member's failure to meet these standards must be based on demonstrated performance and conduct, rather than the use of alcohol. Accordingly, it is DMAAC policy that alcoholism will be

recognized as a treatable illness and will receive the same careful consideration and offer of assistance that is presently expended to employees having other illnesses or health problems.

The Employee Assistance Program provides the vehicle for carrying out the Center policy.

Spotting declining job performance is the essential first step in the Employee Assistance Program; and since it is the employee's immediate supervisor who is in the best position to observe such deterioration, that supervisor becomes an important link in the process.

Clues such as chronic absenteeism, lapses of memory (blackouts), extended lunch hours, unexplained cigarette burns on the body or clothes, and "the shakes" may not always indicate alcoholism; but they will certainly alert a supervisor to watch for signs that job performance is slipping.

Luchini emphasized that supervisors are not intended to be

Staff College Completed



Mrs. Shirley Sostman receives congratulations from Aerospace Center Deputy Director, Colonel Robert Burns, upon her superior performance at the Armed Forces Staff College. Army MG Gordon Hill, Jr., Commandant of the College said, "Her performance in all academic endeavors reflected initiative, keen interest, and professionalism. In seminar discussion she was an active participant. Her extensive knowledge and experience in aerospace mapping and intelligence were especially valuable and contributed to a better understanding of these subjects."

Top Auditor Learns About Cartography



Summer Calendar of Events

JUNE	EVENT	WHERE	INFO
1	Association of Litho Clubs	Salad Bowl	V. Wojcicki/4713
1 T	Toastmasters	Lindbergh Room	
6	ACSM Barbecue	2nd Street	A. West/4866
13	FBA Lunch & Meeting	Carpenters Hall	D. Black/4142
13	Charters Golf	Columbia	C. Lambert/8180
14	FLAG DAY		
15	Toastmasters	Lindbergh Room	
17	FEW Installation	Dining Hall	J. Bebermeyer/4795
18	FATHER'S DAY		
20	BAG Meeting	5th Fl Conf Rm	L. Williams/4424
23	Bloodmobile	2nd Street	D. Ullo/4292
27	Charters Golf	Belk Park	C. Lambert/8180
27	NFFE Local 1827	Dining Hall	V. Haun/4044
JULY			
4	HOLIDAY - Independence Day		
6	Toastmasters	Lindbergh Room	
11	Charters Golf Mid-Season Outing	Triple Lakes	C. Lambert/8180
14	Bloodmobile	South Annex	D. Ullo/4292
18	BAG Meeting	5th Fl Conf Rm	L. Williams/4424
20	Toastmasters	Lindbergh Room	
21	Bloodmobile	2nd Street	D. Ullo/4292
25	Charters Golf	Crystal Lake	C. Lambert/8180
25	NFFE Local 1827	Dining Hall	V. Haun/4044
AUGUST			
3	Toastmasters	Lindbergh Room	
8	Charters Golf	Clinton Hills	C. Lambert/8180
17	Toastmasters	Lindbergh Room	
18	Bloodmobile	2nd Street	D. Ullo/4292
22	Charters Golf	Belk Park	C. Lambert/8180
22	BAG Meeting	5th Fl Conf Rm	L. Williams/4424
25	AFA Meeting	Bardenheier's	S. Popp/8409
29	NFFE Local 1827	Dining Hall	V. Haun/4044

Monthly calendar will be resumed in September.



Clement Roy, deputy director of the Defense Audit Service, along with members of his staff, toured the Aerospace Center during the first week in May to learn more about the advancing systems of cartography. Above, David Premer, assistant chief of the Aerospace Cartography Department, explains the functions of the digitizing table and cathode ray viewer to the auditor. In addition to a tour of the facilities the group utilized the agency's specialized conference rooms for Audit Service meetings.

Do-It-Yourself-Plan Offered

If you want it done, you gotta do it yourself.

Do what? Well, save for a college education, vacation, or even a down payment on a new home.

How do you do it? With U.S. Savings Bonds, the Payroll Savings Plan, and the chart below.

So, take pen in hand and fill in the blanks.

My dream is \$_____.
If I joined the Payroll Savings Plan and set

aside \$___ each week, I could save enough to make my dream come true in ___ years.

Now you know how much and how easily you can save by buying Bonds through the Payroll Savings Plan.

Weekly Savings	1 year	3 years	5 years	15 years*
\$ 1.25	\$ 67.37	\$ 209.51	\$ 388.47	\$ 1,341.28
2.50	135.10	420.14	755.29	3,054.05
3.75	202.92	631.27	1,105.14	4,649.05
5.00	270.58	841.82	1,474.46	6,200.72
6.25	338.60	1,052.61	1,842.95	7,757.39
7.50	406.34	1,263.59	2,212.40	9,309.27
12.50	677.48	2,106.83	3,688.94	15,324.41
18.75	1,016.59	3,161.47	5,536.95	23,320.32

*Based on present interest rate.

CLIP AND SAVE

Brown Receives Fire Award

Harold D. "Doug" Brown, ACAP, was recently the recipient of the 1977 Southern Flame Award presented by the Southern Illinois Arson Investigation Association.

The award is presented for outstanding contributions to the cause of arson prevention.

Brown is an arson investigator and advisor to the association which covers five county areas in Southern Illinois.

The cartographer from Collinsville, Ill., has served as a volunteer firefighter with the Cahokia Fire Department, a fire science instructor at Belleville Area College and has lectured in various arson seminars in the area.

Bloodmobile Visit June 23

Spring Semester Class Tours Center



The first Spring semester class of Eastern Illinois University to tour the Center visited on May 2nd, all part of a cartography class taught by Dr. Walter Duffett, received briefings on the mission and operations of the Center. Dr. Duffett has been bringing his fall semester classes to the Center for the last five years.



One of the alcoholism treatment centers in the area is Hyland Center. Located in a motel like atmosphere, the Center provides a comprehensive modern treatment program, individually designed for the special problems of the patient.

ALCOHOLISM TREATMENT CENTERS AREN'T WHAT THEY USED TO BE

The scenario which read isolate, confine, don't talk about, ignore—the alcoholic is gone. Today alcoholism is out of the closet and into daily conversation of individuals. Along with the change in public attitude has come an increase in concern about methods of treatment of the disease of alcoholism.

In the St. Louis area there are several special treatment centers all of which are available to the Center's employee assistance officer for referral of employees needing counseling. There are even some health insurance companies which now recognize payment of alcohol related treatments. (Individuals should consult their companies regarding details of individual coverage.)

Shown in these photos is one of the treatment centers in the area—Hyland Center, located in South St. Louis County.

The Center presents a program that is medically based and essentially drug free. Each patient enters the Center under the care of a physician who is retained by the patient prior to admission.

During the patient's stay a complete program is built around the individual which includes detoxification, if necessary, counseling and education (including counseling and education available to family and friends) and a re-entry program to help the patient meet the problems of sobriety. Following discharge from the Hyland Center there is a continued Aftercare program that helps preclude further problems.

Complete information on the Hyland Center program and others is available from the Employee Assistance Officer, Louis Luchini, ext. 4621.



Complete medical examinations are a must and are on-going throughout the treatment program.



Informal atmosphere of the Center provides for effective counseling of the patients at all stages of the treatment program. The emphasis is always on the patient learning about alcoholism as it affects him or her personally and methods of arresting the disease process.

DMAAC

Softball News

This year's DMAAC Softball League has an 11 team, 12 game schedule. The games are played at Lyon Park from 3:30 p.m. to 6:00 p.m. and at Berra Park from 6:30 p.m. to 10:00 p.m. on Wednesdays.

The two teams with the best records at the end of the season will represent the league in the St. Louis City Industrial Playoffs. The

four teams with the next best records will play in the DMAAC championship tournament.

Results of May 17th games were: Buffalo Chips—7, Misfits—0; Mustangs—17, Twins II—11; Zymurgies—16, Gorillas—4; Nads—16, Panthers—4; Wonies—17, Cougars—6.

STANDINGS

	Won	Lost
Aardvarks	0	1
Buffalo Chips	1	1
Cougars	0	2
Gorillas	1	1

New Car Tires Go To Metric Sizes

Gorillas	0	2
Misfits	2	0
Mustangs	2	0
Nads	0	2
Panthers	1	1
Twins II	1	0
Wonies	2	0
Zymurgies		

Toastmasters New Officers

The Aerospace Center Toastmasters Club has elected new officers for the July to December 1978 time frame.

New President is LCDR Thomas Fraim; Educational Vice President—Mary Mihaljevic; Administrative Vice President—Pat Cronin; Secretary—Auda Adler; Treasurer—Johnny Hall and Sergeant at Arms—Hiram Lloyd.

V.F.W. Officers

Orville Baughman, ACADA, and Bernhard Ebel II, ACADB, have advanced in positions of responsibility within their respective V.F.W. organizations.

Baughman has been installed as Commander of the Sgt. Charles Fricke Post 8475, East St. Louis, Ill. The post has 320 members.

Ebel has been installed as Surgeon of V.F.W. District 14, which consists of 27 posts in Illinois.

Fighter History

The Air Force has published the first volume of an encyclopedia of U.S. Air Force aircraft and missile systems.

Volume I, titled "Post-World War II Fighters 1945-1973," is available through the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. The stock number is 008-070-00411-9 and costs \$7.25 per copy. The book is based primarily on official Air Force sources.

Prepared by the office of Air Force history, the book contains basic information on all Air Force fighters for the period. It also notes significant modifications attributed to an ever-changing aeronautical technology.

Author Mrs. Marcelle S. Knaack provides production totals, delivery rates, unit costs, phaseout dates, description of new features for each version of aircraft and other important milestones in flight and combat.

New Car Tires Go To Metric Sizes

If you've just bought a new car, you may have found some unusual symbols on your tires—things like "P215/75R14," "kg" and "kPa."

Don't worry. It's all part of the country's gradual, voluntary conversion to the metric system over the next few years, according to a Tire Industry Safety Council spokesman.

"The automobile manufacturers are playing a lead role in that movement to metrics," said Council Chairman Malcolm R. Lovell, Jr. "Whenever they design a completely new vehicle, or change the size of most components, they usually express the new measurements in metric dimensions—millimeters, cubic centimeters, kilograms, kilopascals (metric unit of air pressure), etc.

Tire manufacturers are now making tires with metric size designations and metric load/inflation labeling as original equipment for some new vehicles and for the replacement tire market. In a few years, nearly all U.S. cars may come with metric tires, Lovell explained.

Interchanging a Problem

Inches and pounds don't convert into millimeters and kilograms in round numbers, so the metric tires are not always exactly interchangeable with the old alpha-numeric tire sizes (A-78 or 6.50-14).

As a result, motorists must be very careful when they replace

metric tires with alpha-numeric tires as snow tires or vice versa.

The changeover can usually be made if caution is exercised. The tire buyer and dealer should consult tire load and inflation tables, and tire manufacturers' conversion charts, to make sure the replacement tire will do the job adequately. Sometimes air pressure must be increased in the replacement tire according to the published recommendations.

Unfamiliar Pressure Count

Most Americans have a vague idea that in the metric system length is measured by millimeters and weight by kilograms. However, the unit for air pressure, kilopascal (abbreviated kPa), is not widely known. There are roughly seven kPa's to one PSI.

To simplify things for the consumer, the U.S. Department of Transportation requires that tire load and inflation pressure continue to be labeled in both the conventional pounds of loads and pounds per square inch of inflation pressure as well as kilograms and kilopascals.

In an average tire, "P" means passenger tire. "215" is the cross section width in millimeters. "75" is the ratio of height to width of the tire cross section. "R" means radial, and "15" is the diameter of the rim in inches. "R" may be replaced by a "D" to signify diagonal, or bias ply construction. The letter "B" indicates belted

bias construction.

There is also a new family of high inflation temporary spare tires, used to save space in many new cars. On those tires, the letter "T" for "temporary," replaces the "P" for "passenger."

Load and inflation figures are given in both metric and conventional terms on the new "P-series" tires. The other sidewall markings remain the same. These include the Department of Transportation tire identification number and the type of cord in various plies.



gemini
May 21 - June 20

The intellectual, intuitive, charming, gregarious Gemini is emotionally tied to the need for a nest egg because it represents freedom and travel, which you must have at all costs. The sure and convenient way to create your nest egg is with U.S. Savings Bonds through the Payroll Savings Plan.