

East-West Gateway CFC Tops \$790,000

The East-West Gateway Combined Federal Campaign, chaired by the Aerospace Center Director, Col. James St. Clair, has broken all records in total contributions.

At presstime the collections totaled \$794,184 and were expected to exceed \$800,000.

The original goal set before the campaign was \$710,000. During the first week of the campaign the chairman issued a challenge to achieve the three quarters of a million mark. But Federal employees of the Bi-state area didn't stop there. They reached deep into their pockets and achieved a record contribution.

This was the first year for the East-West Gateway CFC. Previously several small CFC's had been held independently within the metropolitan St. Louis area. The new campaign was designed to merge all the small organizations into one larger more efficient operation.

Unofficial indications show that approximately 80 percent of Federal employees used the payroll deduction method of contributing.

The Aerospace Center was one of the Fair Share agencies in this years campaign collecting a total of over \$102,000.

Comm Center Has 1974 Days Accident Free

The Air Force Communications Service Detachment 1, 1974 CG, which supports DMAAC, has reached a total of 1974 accident free days.

According to Communications Center personnel, being stationed in the Western Gateway city has its advantages, but it also has a very big disadvantage. The city's geographical location, on the banks of the Mississippi River, provides a convergence point for three major interstate highways. Add this factor to the normal rush hour traffic of an area containing over one and one half million people and driving becomes a hectic experience.

With this in mind, it becomes

JA Sales Day Dec. 10

The three Junior Achievement companies sponsored by the Aerospace Center will hold their annual sales day December 10th, according to sales day coordinator J. Jones.

The three companies taking part in the event are the Chain Reaction, Black Stars and Black Resources.

Products produced by the young people and offered for sale will include - desk pen sets with calendars, emergency trouble lights for automobiles, personalized matches and libationary lamps for rathskeller or den.

Individuals desiring to place an order can visit the Junior Achievement booth between 10:00 a.m.

Orienteer

DEFENSE MAPPING AGENCY AEROSPACE CENTER

Vol. XVIII, No. 24

November 26, 1976

Imhof New 15 at Center

Ralph K. Imhof has been selected for promotion to GS-15 and the position of Chief, Aerospace Charting Division of Programs, Production and Operations Directorate. The position was held by Gerald Johnson who left on extended leave pending retirement.



Imhof served with the U. S. Army for two and a half years during WW II.

He is a graduate of Harris Teachers College and came to DMAAC in August 1951 and was assigned to the Photogrammetry Division as a cartographic aid.

Holiday Projects Underway To Help Needy

Two DMAAC organizations have begun their holiday projects to assist the needy at Christmas time.

The Aeronautical Information Department is sponsoring a Toys for Tots drive. Toys are distributed to needy children by the U.S. Marine Reserves.

The department is also sponsoring a canned goods drive which will be donated to the Little Sisters of the Poor. The Little Sisters of the Poor support 250 residents that cannot afford nursing home care.

Toys and canned goods will be collected until December 14. All donations can be left in boxes located in the ADP office.

Another organization associated with the Center that is collecting canned goods and money for needy families is the DMAAC Women's Club.

The collection will be made during the Christmas Bazaar on Wednesday, December 1.

Anyone desiring to assist in the project may bring the items to the 1st Floor, building 36 and the cafeteria at South Annex.

New Base Restaurant Council Chairman

The Base Restaurant Council has elected Gerald Schuld as chairman, succeeding Kennard Whitfield, who will remain as a member.

Mrs. Mary Ann Hinton was again elected Recorder of Council proceedings. Robert Schnure and Robert Spors are the remaining members of the five person council.

services; determine conformance with all regulations and take action to correct any irregularities found; plan for replacement of fund property; determine the un-serviceability of fund-owned property; take necessary action on sanitation, security, fire protection, and maintenance of base restaurant.

All employees are encouraged

With this in mind, it becomes apparent that the Det 1 safety program, particularly that part dedicated to private vehicle operation, is very effective.

Det-1 personnel drive to work from as far as 30 miles, one way, during the heavy traffic flow. They are proud of the fact that they have been able to maintain an exemplary accident free record for almost five years.

GI Home Loans Interest Rates Drop

Interest rates on GI home loans have been lowered for the third time this year. However, Veterans Administration officials note that the rate change does not affect existing loans. Once a loan is made, the interest rate remains the same for the life of the loan.

The new maximum rate of eight percent has been effective since October 18. This is a reduction from the past eight and one-half percent set on March 30. The rate had been decreased from nine percent to eight and three quarters on January 5.

For a veteran buying a home with a 30-year, \$30,000 GI loan, the one-half of one percent decrease lowers the monthly payment by about \$10.50. It could result in a savings of almost

ment starts between 10:00 a.m. and 1:00 p.m. on December 10. The sales area will be located on the first floor of building 36 across from the Credit Union.

The Junior Achievement program allows youth to learn first hand the experience of the free enterprise system by operating and managing their own miniature companies. Personnel from the Aerospace Center serve as advisors for the companies on a voluntary basis.

\$3,800 over the life of a 30-year loan, according to VA officials.

The eight percent rate was agreed upon by VA and the Department of Housing and Urban Development. An increased supply of mortgage money is the main reason for the lower interest rate, VA officials say.

VA guarantees loans made by private lenders to eligible vets, unmarried, surviving spouses and active-duty military people. During Fiscal Year 1976 the VA guaranteed almost \$10 billion in home loans, a record dollar volume.

More than 9.5 million vets have obtained over \$129 billion in loans to purchase homes under the VA loan guaranty program since its inception in 1944.

Division as a cartographic and. He has held positions in the Cartography Division, P&D Plant Staff, Directorate of Operations, Research Department, Programs, Production and Operations Directorate, and Missile Support Department.

Since the reorganization in October, he has been Assistant Chief of the Aerospace Cartography Department.

He and his wife Marilyn are the parents of four children.

Awards Day Set Dec. 8

The East-West Gateway Combined Federal campaign awards day will be held December 8th at 10:00 a.m. at the U.S. Army Troop Support Command, 4300 Goodfellow Blvd., St. Louis.

Awards to be presented include: agency Fair Share award; agency Achievement award; individual recognition award and the Communicator award.

DMAAC is a Fair Share agency.

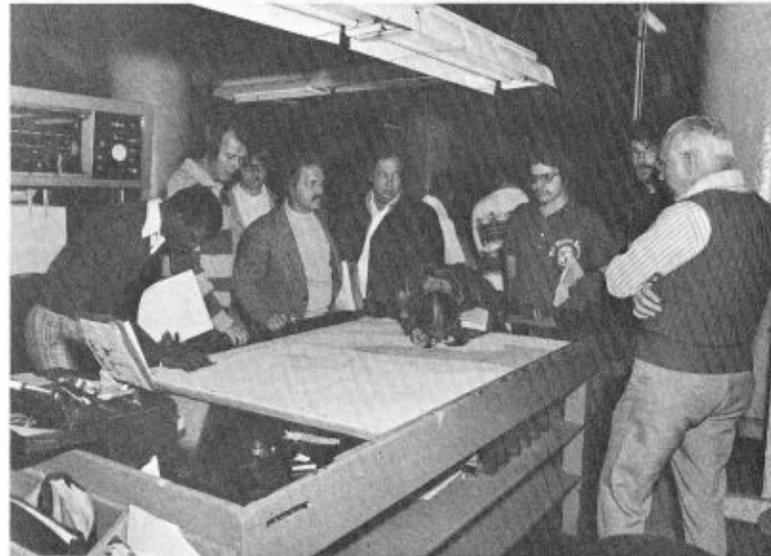
Agency heads, project officers and keyworkers are invited to attend.

The Ref's Story Page 4

Specific duties of the council are to: review the restaurant financial and operating statements; determine adequacy of the

All employees are encouraged to contact any council member regarding improvement of service or council duties.

K-State Potential Map Makers Tour Center



Students from Kansas State University—Pittsburgh toured the Aerospace Center recently to learn more about the chart making process. In this photo the students learn about the lithographic process and view the new automated five color press in operation. Using the eye glass they examine the registration marks on one of the charts just pulled from the press. In addition to the Printing Department, the students received briefings on color separation and compilation, digitizing and plotting through automation and an overall briefing on Center products and their relationship with the DOD weapon systems.

GI Bill, VEA

More Benefits Added

The President signed a new law on October 15, 1976, that increased GI Bill educational benefits for those who serve before December 31, 1976, and sets a deadline of December 31, 1989 for complete use of benefits earned under the current GI Bill. The new law also establishes a new participatory Post-Vietnam Era Veterans Educational Assistance program (VEA) to begin for those recruited after December 31 of this year.

Servicemen and women now on active duty are still covered and will continue to accrue the familiar GI Bill benefits as before. In fact, anyone recruited before January 1, 1977, will be able to earn full benefits, and that includes those enlisted in the Delayed Entry Program (DEP) before December 31, 1976 but not coming on active duty until 1977.

The bill increases benefits in two ways for those currently on active duty, those released within the last 10 years, and those recruited before December 31. First, it would extend maximum benefits from the current 36 months to 45 months, in effect offering five academic years of education. Second, it would increase the Government's monthly payment to GI Bill students by eight per cent. (See table for amounts.)

Column I Type of Program	Column II No dependents	Column III One dependent	Column IV Two dependents	Column V More than two dependents
				The amount in Column IV, plus the following for each dependent in excess of two:
Institutional:				
Full-Time	\$292	\$347	\$396	\$24
Three-quarter-time	219	260	297	18
Half-time	146	174	198	12
Cooperative	235	276	313	18

One example of the increase is that a veteran with a wife and two children using all 45 months of full benefits would receive a total of \$18,900.

While phasing out the Vietnam Era GI Bill, the new law also establishes its successor — the Post-Vietnam Era Veterans' Educational Assistance Act (VEA). VEA is a new approach to veterans educational assistance by which the Service member contributes to his own future education by allotting between \$50 and \$75 each month, with the Government matching the amount 2 for 1. For example, the member's \$50 will be matched with the Government's \$100 for a total of \$150 per month of education.

Bits And Pieces

From the Black Book:

Well, it finally happened. After more than 15 years of publication the Orientor missed a publication date. We've gone through rain, sleet, snow and hail in the past but the flu bug got us in the present. The printer, who prints the Orientor under contract with the Government Printing Office, had the misfortune of having both his pressmen out with the flu bug on the day of Orientor printing. And that, for all of those of you who called on Friday wondering where the paper was, is what happened.

-0-

We trust that all had a pleasant holiday yesterday. Many did what I did I'm sure — try to watch the football game between the turkey legs and the relatives coming and going. Now that we have fortified ourselves on the Thanksgiving perhaps we are better prepared for the onslaught of gift buying that is yet to come. I'm sure glad Christmas doesn't come any further away from Thanksgiving than it does, I'd never survive.

dlb...

In Sympathy

CHARLES H. SCHMIDT, FEMAE, died on Friday, November 12th. He was assigned as air conditioning

equipment mechanic foreman and had been at DMAAC since July 7, 1952.

He is survived by his wife, Beverly, who was a cartographic negative engraver in Cartographic Department at



HONOR ROLL

OCTOBER 1976

35 Years

Richard W. Powers

30 Years

Duane A. Knudson, Harold P. Keaton, Eli Shaw, Albert H. Solari, Alberta K. Dingler, Robert S. Lewis, George M. Lovings, Joseph P. Vogel, Eugene J. Stender, Abner O. Sutterfield, Guido S. Rocco.

25 Years

Frederick J. Baumhoegger, Jr., Olin B. Spyers, Paul S. Poston, Samuel W. Brewer, Dorothea F. Lewis, Jackson Bowles, Norbert H. Sudholt, John W. Hajek, William A. Stoehr, Ernest M. Schaefer, Harriet Coleman.

20 Years

Gene E. Gerdemann, George J. Seelman, Ladorn Creighton, Jack T. McNeil, Milton E. McLemore, James D. Runnion, William J. Murphy, Raymond J. Haack.

15 Years

Royce K. Baker, Robert C. Eddy, Dorothea J. Taylor, Russel E. Pickup, John M. Finch, Dorothy D. Vogeles, Richard C. Clouser, George L. May, II, Thomas H. McIlvaine.

10 Years

John P. O'Connell, Clara J. Alexander, Mary Ann P. Meurer, Randal W. Callies, Robert L. Holland, Stella L. Brooks, Martinous V. Walls, Judith M. Epperson.

Outstanding Performance Ratings

Louis M. Stewart, Virginia L. Milentz, Donald R. Jones, Gerald K. Stone, Jane F. Drazen, Paul B. Morton, Earlene G. Harris, Kenneth L. Sherertz, Henry W. Bodeman, John M. Finch, Albert Doucet.

Quality Salary Increase

Henry W. Bodeman, John M. Finch, William M. Lovelady, June M. Ruckman, Jane F. Drazen, Edith E. Grob, Bobby M. Hagler, Ralph E. Mackenzie.

Sustained Superior Performance

Louis M. Stewart, Virginia L. Milentz, Donald R. Jones, Gerald K. Stone, Earlene G. Harris, Kenneth L. Sherertz, Philander Weightman, James A. Krause, Keith King, James P. Hutchings, John E. Fletcher, Michael C. Faulkner, Barbara C. Elftmann, Kilburn D. Adams, Lowell E. White, James O. Williams, Kenneth J. Schlarman, Charles E. Sattler,

Except in certain emergencies, a member who decides to participate in this new VEA program must agree to contribute for 12-month increments. VEA assistance will be provided for the same number of months as the member contributed up to a maximum of 36 months. A member who decides not to use his VEA benefits after contributing will receive his share of the money back at the end of his enlistment or, if he has already been released, within 60 days of notifying the Veterans Administration.

The Secretary of Defense now has the additional authority, at his discretion, to contribute to the VEA fund of any participant to encourage the person to enter or remain in the Armed Forces — a feature clearly addressed to attracting and retaining qualified men and women.

The new bill also terminates the Predischarge Educational Program (PREP) effective November 1, 1976. No one now on active duty can be enrolled or re-enrolled in PREP after that date. DoD is looking into ways to extend inservice high school completion programs to cover most of those who would have used PREP. Future members of the Armed Forces participating in the VEA will be able to use PREP but only during the last six months of their first enlistment.

The VEA program will be funded for the first five years by the Veterans Administration. After that time, VEA will be reviewed by the President for his recommendation to make it permanent. Upon favorable recommendation by the President and unless vetoed by one house of Congress, VEA will become permanent, but will be part of the Defense Budget.

Veterans Administration and Defense officials are working on directives and regulations now to implement the new law. They expect to have full particulars before the new Veterans' Educational Assistance program gets underway in 1977.

VEA is a smaller Post-Vietnam educational program. For Vietnam Era veterans—those currently on active duty, those released in the last few years, or those who are recruited before December 31, 1976 — the GI Bill increase in

graver in Cartography Department at the time of her retirement in August 1974.

Funeral services were held November 15th in Arnold, Mo., with interment at Mount Hope Cemetery.

THOMAS J. DACE, JR., AC-NBB, also died on November 12th. He was a cartographer and had been at DM-AAC almost 28 years.



He originally entered on duty in April 1948. He resigned September 1, 1953 and was hired again on May 10, 1954.

The funeral services were held November 16th with interment at National Cemetery.

He is survived by four daughters and a son.

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

monthly payments and the extension of eligibility to 45 months or five full academic years are the important features.

Sandra R. Penning, William R. Hantack, Gerald V. Krauss, Milton E. McMurry, Lawrence E. Gray, Richard A. Gephart, Ronald F. Niederschmidt.

Special Achievement Award

James H. Scates, Thomas M. Little, Louis Runge.

The Cocktail Party

The cocktail party, an American invention, has been called "a primitive, dangerous drinking rite." It seems designed to bring too many people into too small a space to drink too much too fast without eating, all spiced with conversation that can't be heard—often for the purpose of paying off social debts wholesale.

The typical cocktail party is crowded, and everyone is dressed up, hungry, and a little tense. Many of the guests scarcely know one another. The host or hostess is frequently immobilized by the crowd in a corner of the room. There is little to eat. There's not much to do but stand around uncomfortably, drink, and talk. And talking is easier than hearing. Some parties go on for hours with no breaks in the drinking.

How to cope? One can stay home. Or go with a game plan—have the ritual drink if you choose, elbow your way to the beleaguered host or hostess, pay your respects, and escape to a quiet dinner served somewhere else.

If you venture to give a cocktail party of your own, be kind to your guests. Invite no more than may be seated somewhere, even on the floor. Provide coasters that guests may use to rest their drinks on while relaxing, moving about, and conversing without having to hold the ever-present glass.

Set specific hours, say five to seven, and adhere to them. A considerate way to close the drinking phase is to serve a substantial snack. It also provides some non-drinking time before your guests start to drive home.

Summer Job Applications Deadline Announced

Application deadlines for the 1977 Federal Summer Employment Examination have been announced by the U. S. Civil Service Commission (CSC).

The examination, which includes a written test, applies to most Federal summer jobs in clerical and administrative positions and to subprofessional jobs in engineering and the physical and biological sciences GS-1 through GS-4.

Tests are scheduled by CSC area offices. Applicants who file with an area office by Dec. 9 will be tested in January. Those marked before January 13 will be tested in February. Applications post-marked after Jan. 13 will not be accepted.

Applicants will be notified about two weeks in advance of when and where to report for the written test.

Candidates who took the test and qualified for summer employment in 1976 may renew their eligibility without retaking the written test by submitting an updated form by Jan. 13.

Instructions for filing for the written test and for renewing eligibility, along with all neces-

sary forms, are included in CSC announcement No. 414, Summer Jobs.

The announcement also contains information on how to apply for summer jobs for which the written test is not required. Generally, candidates for such jobs are rated on college study or job-related experience, and candidates apply directly to the hiring agency.

The announcement, which details Federal summer job opportunities nationwide, can be obtained from most college placement offices and from local Federal Job Information Centers. The nearest job information center is listed in most local telephone directories under "U.S. Government," or the state toll-free distance telephone number can be obtained by calling 800-555-1212.

The U.S. Postal Service is not participating in the 1977 summer employment program. Inquiries regarding summer employment with the U.S. Postal Service should be directed to the post office where employment is desired.

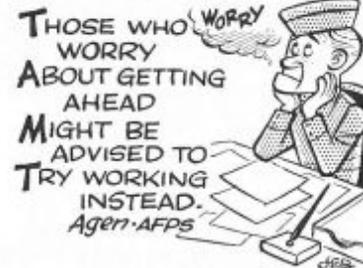
How's Your Know How?

1. What is a bathyscaphe?
2. To become a U.S. Senator, must a candidate be a native American?
3. Which star is nearest the earth?
4. What was the Philosopher's Stone?
5. For what is Sutter's Mill famous?

(Answers to Quiz)

1. A vessel built for exploring the ocean depths.
2. No, but he must have been a citizen for at least nine years.
3. The sun, at an average distance of 92,894,100 miles.
4. The substance which, according to medieval alchemists, would convert all baser metals into gold.
5. As the place where gold was discovered near Sacramento, Calif., in 1848.

Rhymes of the Times



CALENDAR OF EVENTS

DEC	EVENT	December WHERE	INFO
1	DMAAC Women's Club Christmas Charity Bazaar	2nd & Arsenal South Annex	Mrs. H. Day/839-0468
2	Association of Litho Clubs	Salad Bowl	L. Held/4846
7	ASP Meeting	2nd St. Dining Hall	P. Goss/4043
10	Junior Achievement Sales Day	2nd & Arsenal	J. Jones/4540

ASP Meet

Harold Masursky, Viking Project Officer for Astrogeological studies will address the December 7th meeting of the American Society of Photogrammetry.

The meeting will be held at the DMAAC Dining Hall at 2nd & Arsenal, from 6:30 p.m. to 8:00 p.m. It will be preceded

How To Use Unused Sick Leave Toward Retirement

Question: How is unused sick leave credited upon retirement?

Answer: A retiring employee increases his or her annuity by adding the time represented by the unused sick leave to the retiring employee's actual service. Since the amount of annuity is partly determined by amount of creditable service, adding sick leave to actual service increases the amount of annuity.

Q: What credit is given?

A: Generally, each 8 hours of unused sick leave equals one day of service. Days are converted to months and years on a 260-day work year basis. On this basis, approximately 22 days equals 1 month.

Q: I am able to retire with enough years of service only if I add my unused sick leave to my actual service. Is that permitted?

A: No, sick leave is credited only for computing the amount of annuity. It is not used for figuring the High-3 average salary or for counting toward the minimum length of service necessary to retire.

Q: Is deposit of contributions to the retirement fund required to obtain retirement credit for unused sick leave?

by a social hour from 4:30 p.m. to 5:30 p.m. and dinner from 5:30 p.m. to 6:30 p.m.

Contact Paul Goss, Program Chairman, at Ext. 4043.

Promotions

The following people received promotions during the month of October: Ann F. Behrens, GS-7; David W. Boone, WG-12; Ferdinand Bozada, WP-18; Roger M. Carbone, WP-15; Thomas J. Corcoran, WP-15; Hazel M. Cullen, GS-7; Robert A. DiFulvio, WP-29; Charles D. Hall, GS-14; Jack Menendez, GS-12; Barbara J. Rauch, GS-9; Ellis Ray, GS-8; Carolyn Schifferdecker, GS-7; Elmer D. Shoults, GS-11; Hubert C. Tidwell, WP-15; Jack T. Wallace, GS-13; Charles Woolf, GS-9.

—Military—

Jimmy L. Sterling from the Cartographic Technical Squadron was promoted to Technical Sergeant effective October 1, 1976.

TSgt. Max Tubbs', AA, NCOIC, Personnel Services, promotion to Master Sergeant is effective December 1, 1976.

Announcement was made of selection to the grade of Lieutenant Colonel of Majors John F. Fiddler, FIO-Europe; Rondall E. Skinner, FIO-Alaska; and Thomas J. Crawford, Requirements Division, Plans Requirements and Technology Directorate.

	Sales Day	R. Freeland/8364
17	Bloodmobile	2nd & Arsenal South Annex
25	CHRISTMAS DAY	
<u>JAN</u>		
1	NEW YEAR'S DAY	
	Contact Marge Wisneski/4142, to have your January events listed.	

We have it on high authority that sharing the ride is a very good idea.

It made sense to Noah. And it still holds true today. Sharing the ride with just one other person can cut your commuting costs in half. Think about it tonight on the

way home. Do something about it tomorrow morning. And don't get caught out in the rain.

Share the ride with a friend. It sure beats driving alone.



A public service of this newspaper, The U.S. Department of Transportation and The Advertising Council.



A: No.

Q: My personnel office told me that generally the maximum annuity I can receive is an amount equal to 80 per cent of my High-3 average salary. Does this limitation apply to annuity based on unused sick leave?

A: No. Additional annuity resulting from sick leave credit is allowable, over and above the 80 per cent limitation. Although sick leave cannot be used to meet minimum requirement for retirement, crediting sick leave is not restricted by maximum allowable service limitations. Therefore, the more sick leave you as an employee are able to save, the more it will benefit you in retirement.

DMAAC Women's Club Christmas Charity Bazaar

Wednesday, December 1, 1976

8:30 a.m. - 2:00 p.m.

2nd & Arsenal - South Annex

Striped Shirts Aren't Easy To Wear --

by David L. Black

Walking into Bill Moran's office in the Directorate of Logistics and seeing him working behind a stack of papers or hearing him discuss a point at a meeting, one would never peg him for a hockey referee. For one thing he's always smiling and every hockey fan knows that referees don't smile. He's also too mild mannered; referees are never mild mannered. And lastly, his office location on the 3rd floor of Building 25 qualifies him more for mountain climbing than for ice skating.

But never the less, Bill Moran is an official ice hockey referee, and a darn good one at that.

In fact, he's the current vice president of the Missouri Ice Hockey Officials Association, the group that has the responsibility of selecting, training and evaluating hockey officials.

Bill, as a result of ten years of on-the-ice experience and many hours of schooling, is qualified to serve as referee or linesman for any age group through college level competition. Additionally he qualifies as a linesman in the National Hockey League and officiates in that professional league occasionally.

"How did you get started?" we asked in the traditional interview fashion. The reply was almost as short as the question, "I went out to the rink one day and they were short an official. So..."

He was no novice to the sport, having played a great deal of amateur hockey in his youth with teams sponsored by the Blue Liners (a club which supports and encourages amateur hockey in the area).

From the "well just this once"

beginning to now, Moran worked his way up the officiating levels to the professional position he now enjoys. Working your way up means reading a lot of rule books, working a lot of games as a junior official, attending training camps and receiving critique after critique.

Actually things haven't changed much. He still is required to read and re-read rule books (every level of the sport has different rules), during the summer he is required to attend training courses and during each game his work is evaluated by the officials association and the players association. Every year each official is re-evaluated as to the level of officiating that he's qualified to do.

Most of his work is at the college and high school level but occasionally he gets a call to fill-in at the Arena when the Blues are playing and one of the regular crew is ill or injured. "That's another set of rules we have to know," commented Moran. He's well up on the pro rules though,



There's a technique to dropping the puck during a face off and a good official learns rapidly. Moran is a good official.

because he serves as a minor official for every Blues game. Minor officials are the goal judges and the statisticians.

College games, for which Bill has become a regular member of the on-the-ice-team, include the Billikens of St. Louis University, University of Missouri and Indiana U. The "Have whistle, will travel" policy keeps him on the ice at least three nights a week, and that probably is an extremely conservative number.

There are approximately 1,000



Not everyone agrees with every call!





Teams from St. Louis University and New Hampshire University line up for the National Anthem prior to a recent game at the St. Louis Arena. DMAAC logistic management specialist, and part-time hockey official, Bill Moran, stands at center ice.

servative number.

There are approximately 4,000 amateur hockey players in the St. Louis area today, not counting those playing on the college teams. This makes for an annual schedule of some 4,300 games per year to be worked by 25 qualified officials.

—Hard Work—

“Have you ever measured the distance you travel during an average game?” we asked. “No, but I’ve always wondered. I guess you could figure it out,” Moran replied throughfully. “The rink is 200 feet from end to end and we must go back and forth at least a hundred times a night.”

Keeping in shape is an every day ritual which includes a ten mile bike ride, push-ups and sit-ups and strict diet. Considering that the only protection the official has is his whistle and shin pads, being in top physical condition really pays off when you step between the Pittsburgh Penguins’ “Battleship” Kelly and a Blues player of equal size to attempt to settle a dispute. “I think they finally felt sorry for me and stopped,” remarked Moran.

The cuts and bruises; the stitches and scars; the aching muscles and tired eyes attest to the fact that wearing the striped shirt isn’t easy.



Shin guards and quick reactions are about the only protection a hockey referee has. Getting on the gear begins the five hours it takes to work an average game.

Photos

by

Ed Mullen