

## New Grounds Energy Resources Crew for Wagner Near Exhaustion

### Non-Academic Economy

by Lynn Morrell

Beginning on Monday, October 16, the job of maintaining the grounds and buildings on the Wagner campus will be the responsibility of Business Services Corporation of New Jersey.

This firm, a subsidiary of Prudential Maintenance Corporation, brings a fine reputation in its field to the college. Dr. Dieckman, vice president of the college, expressed his optimism about the benefits which will result from the maintenance switch.

Prior to this time, the maintenance staff had been on the payroll of the college and subject to its direct supervision. This arrangement has been proving quite costly to the college, especially in terms of man hours in the personnel and computer offices. Now that Business Services is handling maintenance, the college need

only pay a flat fee to this organization, an action which Dr. Dieckman states will result in a considerable saving for Wagner.

The employees in the maintenance department have been given two weeks severance pay, and any accumulated vacation pay which was due them. The entire force has been hired by Business Services which will now take over the responsibility for their direction.

The move was made, Dr. Dieckman said, in order to cut expenses and thus balance the budget WITHOUT raising tuition or cutting costs in areas pertaining to academic matters. Dr. Dieckman stressed the point that Wagner was determined to avoid any sort of tuition increase. The college's emphasis now, he stated, was to economize in non-academic areas alone.

by Lon Hosford

The electrical power plants supplying the world's energy today have wasted 70% of the fuel put into them. They not only waste valuable energy resources, but they also pollute the environment.

With these two points Dr. Henkel of Wagner's Physics Department outlined the pessimistic description of the "Energy Crisis" for a lecture sponsored by The Society of Physics Students.

Dr. Henkel pointed out that both a growing population and a simultaneous growing demand per person are the factors underlying the current crisis of energy shortages. The present energy structure, the steam turbine electrical power plants of fossil fuels, are not meeting the current energy needs as you read this article. As you know urbanites are becoming accustomed to brownouts and blackouts, the signs of energy shortages.

Eventually, the steam powered turbines will stop. This will occur soon after fossil fuel resources are consumed. To be replenished, fossil fuels will only require a few hundred million years and a few dinosaurs. But, as soon as they are replenished, the earth will have another 100 years of electrical energy.

But humor is no substitute for an energyless society of radios, televisions, and electrical whatnot. There will be no humor if Dr. Henkel's theory of war holds true. His theory is that people will fight over energy sources. He submits that the Japanese invaded China, the Nazis invaded Russia, and the U.S. stays in Indochina because of energy resources. If the exhaustion of the present energy resources doesn't kill us, the fight for new resources certainly will do so.

Fortunately there are better solutions to the energy crisis than fighting wars. Dr. Henkel provided us with a wide array of possible solutions and he highlighted each one's advantages and disadvantages. The following is a synopsis of his presentation:

(cont. on p. 8)

### Possible Solutions

Photo By John Di Clemente  
Professor Henkel Speaking About The Energy Crisis



## Tribute To Nicky Taylor

### A Former Basketball Great

by Black Concern

"If you knew him you would know why we must honor him: Malcolm was our manhood, our living, Black manhood." This quote taken from the "Autobiography of Malcolm X" best describes the man, Nicky Taylor who was tragically killed in a car accident over the Labor Day weekend three years ago.

Nicky, affectionately known as "Bullet" was Wagner College's dynamic basketball player who did his thing on and off the court.

He was instrumental in the preparation and planning of Notre Dame's Black Wednesday and as an active member of Wagner's Black Concern, Nicky always spoke fearlessly and vehemently concerning the Black man's life and struggle here in white America and abroad.

He served as mediator, diplomat, and spokesman not only for the Black students at



(cont. on p. 8)

## New Curriculum Change

### Entire Campus Community

#### to Meet

There will be an information meeting, scheduled for Wednesday, October 18 at 3:00 and 4:00 p.m. in (tentatively) CCF2 to discuss the calendar change-curriculum reorganization plan proposed to the faculty for its October 31 meeting by the Academic Development Committee.

Because of the time schedule involved for implementation next year, there has not been an opportunity for a college-wide hearing. The Faculty Council unanimously called for this information session to be conducted by the Academic Development Committee.

The proposal as the faculty will receive it is printed here.

### Proposal for Calendar Change

... page 2

### New Laws Of Experiment

... page 3

### A Trip Into Space

... page 4

# Prevention Is the Best Medicine

by Jeff Lloyd

A new addition to the nursing department this year is Dorothea Jakob. Mrs. Jakob is well acquainted with Wagner for she is a graduate of the class of 1968. Upon graduating, she earned her M.A. at N.Y.U. while majoring in Community Health Nursing. She will be teaching Community Health Nursing, a required senior-level course.

Many people are probably not aware of exactly what this involves. The role of the nurse working in this field is to focus on the nursing needs of the well and sick of all ages in the target community. The approach stresses health education, developmental counseling, and referral of "healthy" people for prevention of disease and for maximization of their potentials. Intervention with the "sick" involves "sick care" and measures which minimize disability after hospitalization and/or prevent

the need for hospitalization. Recognition is made that communities with weak ties tend to have higher probabilities for physical, emotional, and social diseases.

The class is now focusing on the Mariner's Harbor community on Staten Island. The major area of concentration is the Mariner's Harbor Houses Community, a low income housing project with approximately 2500 residents. Students are learning and contributing to youth programs, a senior citizens' group, school health program, child health program, community health clinic, home nursing agency, and a home care program in a local hospital. To combat the pressures of isolation, apathy, overwhelming needs, boredom, fear, etc., the class has joined the leaders and twenty other groups that are also working in this community.

EDITORS NOTE: Due to a proofreading oversight, some uncorrected material was interjected into the Jakob interview. The corrected copy is reprinted here.

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# Bold Calendar Change Proposed By Faculty's Academic Development Committee

Related Story page 1

The Academic Development Committee proposes that the Faculty recommend to the Board of Trustees a change in the academic calendar which includes the following:

- (1) the conclusion of the Fall semester before the Christmas recess, and
- (2) the division of the Spring semester into two instructional modules; Module I having a duration of four weeks, and Module II a duration of twelve weeks.

	Maximum* Student Load	Faculty Load	Weeks**	Calendar***
Fall Semester	16 17	12	15½	Sept. 4 - Dec. 21
Christmas Recess			1½	Dec. 22 - Jan. 6
Module I) Spring	3 4	3-4	4	Jan. 7 - Feb. 1
Module II) Semester	12 14	9 or 8	12	Feb. 4 - May 10
Commencement				May 19

\*Based on an index of 3.2 or below.

\*\*Semester weeks include registration and evaluation but exclude the Easter holiday.

\*\*\*Dates are only suggestive, based on the 1973-74 calendar, and include a one and a half week Easter recess (April 11 - 21).

## II. Module I of the Spring semester:

Students will take one course in the first module as a normal part of their semester's work. Both faculty and students will be responsible for only one course, free from course schedule conflicts and multiple preparations. Courses to be offered in the first module may be:

- A. Regular courses.
- B. Courses of a more innovative type developed for the four week module.
- C. Special research and independent studies projects.

With this modular plan for the Spring semester, the Faculty and student course loads would remain at their current levels, the first semester would conclude before Christmas and the second semester would end approximately two weeks earlier than present practices.

Courses taught in the second module would require a lengthened teaching period. The easiest way to handle this would be to run 60-minute instructional periods with ten minutes between classes. While this would reduce the total day class periods by one in six, there would also be one fourth fewer courses being offered.

Part-time Faculty would not be utilized for the first module under normal conditions. Practice teaching programs and field placements would be exempted and may run for the full semester as is current practice.

# Wagner Home coming

by Barbara Stevens

It is still a bit early to go into details for this year's Homecoming at Wagner College, but as plans stand at this point, activities for Homecoming are divided between Friday, October 20 and Saturday October 21, 1972.

Friday is the annual Sorority Tricycle races and the Fraternity Pushcart races. The crowning of the Homecoming Queen is Friday night.

Saturday is the float parade with Pulitzer Prize-winning

playwright Paul Zindel as one of the judges. Following the parade is the annual football game. Alumni activities are also planned throughout the weekend.

If you are interested in helping to complete the plans for Homecoming, please contact Sue Postel, Homecoming Chairman, HVH 405. Any alumni interested in finding out more about their special activities should contact Mr. Barbes, Alumni Office.



# Universal Laws of Experiment

## LAW OF EXPERIMENT

**FIRST LAW** - In any field of scientific endeavor, anything that can go wrong will go wrong.

Corollary One - Everything goes wrong at one time.

Corollary Two - If there is a possibility of several things going wrong, the one that will go wrong is the one that will do the most damage.

Corollary Three - Left to themselves, things always go from bad to worse.

Corollary Four - Experiments must be reproducible; they should fail in the same way.

Corollary Five - Nature always sides with the hidden flaw.

Corollary Six - If everything seems to be going well, you have overlooked something.

**SECOND LAW** - It is usually impractical to worry beforehand about interference; if you have none, someone will supply some for you.

Corollary One - Information necessitating a change in design will be conveyed to the designer after, and only after, the plans are completed.

Corollary Two - In simple cases, presenting one obvious right way versus one obvious wrong way, it is often wiser to choose the wrong way so as to expedite subsequent revisions.

Corollary Three - The more innocuous a modification appears to be, the further its influence will extend, and the more plans will have to be redrawn.

**THIRD LAW** - In any collection of data, the figures that are obviously correct, beyond all need of checking, contain the errors.

Corollary One - No one whom you ask for help will see the errors.

Corollary Two - Any nagging intruder who stops by with unsought advice will spot it immediately.

**FOURTH LAW** - If in any problem, you find yourself doing a transfinite amount of work, the answer can be obtained by inspection.

TO ASSIST IN THE RESEARCH SUGGESTED, THE FOLLOWING RULES HAVE BEEN FORMULATED FOR THE USE OF THOSE NEW TO THIS FIELD.

### RULES OF EXPERIMENTAL PROCEDURE

1. Build no mechanism simply if a way can be found to make it complex and wonderful.
2. A record of data is useful; it indicates that you have been busy.
3. To study a subject, first understand it thoroughly.
4. Draw your curves; then plot your data.
5. Do not believe in luck; rely on it.
6. Always leave room when writing a report to add an explanation if it doesn't work. (Rule of the way out)
7. Use the most recent developments in the field of interpretation of experiment
  - a. Items such as Finagle's Constant and the more subtle Bougeurre Factor (pronounced "Bugger") are loosely grouped, in mathematics, under constant variables, or if you prefer, variable constants.
  - b. Finagle's Constant, a multiplier of the zero order term, may be characterized as changing the universe to fit the equation.
  - c. The Bougeurre Factor is characterized as changing the equation to fit the universe. It is also known as the "Soothing" Factor; mathematically, somewhat similar to the damping factor, it has the characteristic of dropping the subject under discussion to zero importance.
  - d. A combination of the two, the Diddle Coefficient, is characterized as changing things so that the universe and the equation appear to fit without requiring any change in either.

### LOST AND FOUND

Dr. H. Arrowbee, a long-time professor of good standing in the philosophy department, has courteously submitted a selection from his thesis concerning the plight of existing on, and off, Grymes Hill.

Return "thesis" to M. Rosen. Thanks.

## Data on

# "The Computer Center"

by Lydia Maida

Just for curiosity, how many of you know where Wagner's electronic minds are?

In the Science Building, basement floor, is the Computer Center. Mr. Pat Lee has been the Director of Systems and E.D.P. (electronic data processing) there for two years.

The "Center" is open from 8:00 a.m. to 8:00 p.m., five days a week. There are about six people who work in the office and use the machines. There is a programmer, a computer console operator, a key punch operator, one part time person, and two student helpers, of which I am one.

Since I have mentioned the machines, let me tell you what they are. First of all, Wagner's original computer was a Honeywell 110 from December of 1968. Now there is a new Honeywell computer, an IBM 082 Card Sorter, an IBM 548 punch card interpreter, and a vault for the safety of the tapes. The machines are used mainly for the business end of things at school: billing, grading, payrolls, etc. The temperature in the room is kept from 68 to 72 degrees, so the machines operate

efficiently and it is also quite noisy in there.

Hopefully, the present computer will be changed to the quicker and more efficient Honeywell 115.

The computer is also used for academic purposes. There are three courses in computers and computer language; they are Introduction to Computers, Fortran, and Cobol. Eventually, one out of every five people will be involved in computers; I feel there is a lack of knowledge about this department at Wagner. Fortran or Formular Translator is a language used by math. or engineering majors. Cobol is important for business and economics majors. In fact, it should be listed under Business instead of Math. Cobol is a basic computer language. There are a few different classes in each course and Mr. Lee teaches a few. Taking these courses and getting your degree, you can go into programming or be a systems analyst and have quite a diversified job. The money that you earn is quite reassuring also.

I hope I have answered a few questions concerning the computers and how they can help you at Wagner.

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# THE STELLAR TRIP

## PROF. HAMILTON BUILDS 3D STELLAR MAP

by Louis Blois

Photo By John Di Clemente

Three Dimensional Map In Wagner Planetarium

Follow this, it's not magic: Any star's position in outer space can be given celestial latitude and longitude, plus its distance from earth. What borders on witchcraft is that the neighboring cluster of stars, whose content originates from the same primordial cloud of gas as our Solar System goes largely unmentioned by astrologers and those involved in the 'black' art. Despite uncontrollable vehemence from those on Staten Island involved in devil torture and sorcery, Professor Hamilton for purely scientific purposes has constructed a three-dimensional map of this intimate obscurity of stars.

This admirable project was begun the rainy summer of two years ago and took six weeks of painstaking detail to complete. The model, properly called an eidouranion, represents 60 stars within a radius of 17 light years. Seventeen light years, a distance of 100 trillion miles is the greatest distance that stellar distances can be measured accurately. It is worthy to know while observing this eidouranion that each inch is scaled to half a light year, or 3 trillion miles.

### Famous Stars Include

Populars such as Sirius Altair and Procyon with distances of 8.7, 16.5 and 11.3 light years are among the group. All the stars are given their appropriate colors and relative sizes which arranges them into various types on the Hertzsprung-Russel diagram, a star organizing chart. Inspection reveals that the neighborhood comprises a rather ordinary lot of stars, most of which are dwarfs smaller and fainter than the sun. Although covering a very limited part of the H-R diagram, they pose complex problems to astronomers. One difficulty is that, along with the sun-type stars of 4 or 5 billion years of age, there are substantially younger stars about 500 million years, to which the three celebrities belong.

### Eidouranion Kept Current

Since the completion of the project, three newly discovered stars were added, plus the orbit of Pioneer 10 in its path from Jupiter to infinity. Since the model contains Barnard's star, the star whose relative position in the sky is changing most rapidly (proper motion), Professor Hamilton estimated that in about 3,000 years he would have to change that star's position 1/2 inch closer to the earth. In 10,000 years Barnard's star would replace alpha Centauri's honor of being the closest star, although the whole model will be subject to drastic revision 15,000 years hence.

Ten planets can be observed within the stellar geography, with Jupiter and Saturn being visible about the sun as well as the star of Barnard carrying two.

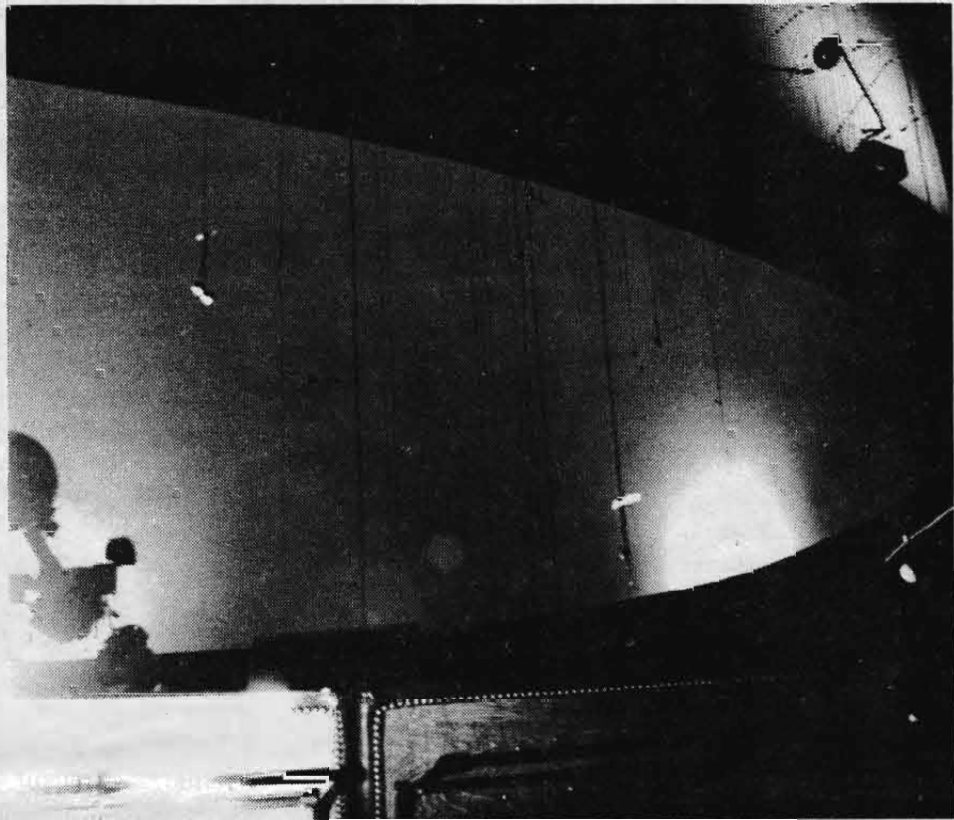
### Speciatives

Some of the sixty count stars are doubles and triples, alpha Centauri being a member of the latter category. The sub-giant alpha Centauri B of second magnitude is 30% larger than the sun and its composition remains a mystery to scientists. Flare stars are represented by solid red with a yellow streak along the equator. The flares are similar to those jets of particles which the sun sprays out occasionally causing geomagnetic storms, the aurora borealis and general communication disruption. The flares under consideration here are those that emanate from red dwarf stars and are of greater proportion to the body of their origin and therefore more noteworthy in their observation. One such object in the eidouranion, A D Leonis, has one planet.

Other spectacular events could include a process known as the nova. Novae are postulated to be the last dying gasps of a hydrogen-fuel deplete star engaging in the periodic kinetic consumption of the degenerate hydrogen remaining only about its skin. Sirius, Altair, and Procyon lie just below the critical mass necessary for this course of evolution.

### Uniqueness

One other prominent eidouranion exists at the Hayden Planetarium at 81st Street, which defines the constellation of Orion in three dimensions. Otherwise the nation is pretty much devoid of such entertaining celestial stages. Yet, its popularity is spreading fast: a week ago, Professor Hamilton gave a paper on his creation at the West Chester State College in Pennsylvania. About fifteen other planetarium operators thought the concept was cool and were very interested in the financial aspects of the project. With illumination, precise motors for automatic, proper motion and blinkers for flaring stars, estimates are near \$4,000. The Hamilton original: \$.98.



## 107 STUDENTS LOST IN BIG DIPPER

By Janice Evans and April Maxwell

Anyone interested in where to find seven sisters? How about twin brothers? If you had gone to the planetarium show on Oct. 10 you would have found them there. The seven sisters are the Pleiades and of course the twins are Gemini.

The shows that day were presented by the Astronomy Club, which is presently being headed by co-presidents Scott Tracy and Bob Klomburg. After eighty-four students crowded the planetarium for the first two shows Scott and Bob generously ran a third showing for the twenty-three people who couldn't fit into the room for the previous shows.

After seeing the show, we can understand why there was such a good turn out. With the help of Technical Assistant George Krautter Scott and Bob put together a great show combining a visual and audio jaunt into the stars. All you have to do is go in, sit back, enjoy the musical background and the projections from the star globe,

which shows the stars that would be visible to us in ideal circumstances.

Besides having a good time, you even pick up a few snatches of knowledge. Did you know that we would see many more stars than we do now, if New York City weren't there? During the show Scott and Bob point out star formations such as the signs of the Zodiac and old familiars such as the Big and Little Dippers.

Money for the show is supplied through the courtesy of the school. The money which is needed for equipment and the continuation of free shows. The general consensus of the students we talked to was that the shows were informative and interesting. Because of the obvious quality of the shows, it is easy to see why the school should give money to develop this club. Without funds the club can't keep up this good work. Why should we let such knowledge and talent go to waste?

Just a little news about the Astronomy Club itself.

Besides presenting excellent planetarium shows they do have a few other activities. The group has access to the planetarium and the use of its equipment. Their meetings are spent observing the stars and planets, locating sights of interest and discussing them.

New members are always welcome. Contrary to what you might think, you don't have to know anything about astronomy, in fact you don't have to know anything about astronomy. The only requirement is having an interest in the stars and wanting a fun way to spend some free time. Scott and Bob lead the discussions in an informal manner that can hold the interest of anyone who attends. They're really looking forward to seeing some new faces at their meetings.

If you're interested in the club, contact Scott or Bob in Towers B 608 (phone: 447-9139). Even if you don't join the club, why not take some time out to see one of the shows in the future?



# Shakespearean Actor Completes Autobiography

by Lynn Morrell

Professor Yorick von Hosford, noted Shakespearean actor, has announced the impending publication of his autobiography, *The Graven Image*. Professor von Hosford whose controversial claim that he was a member of the original of Hamlet has divided the critics,

makes no bones about his confidence in his own literary talents. "I've no doubt," he said, "that the critics will be both entertained and informed by my book."

Among the critical areas discussed in his

book, Professor von Hosford states, is a fresh interpretation of the stirring graveyard scene.

When asked about his approach to writing Professor von Hosford modestly replied, "I simply started with a skeletal outline and built myself up from there".

Prof. Von Hosford, Who Has Just Completed His Autobiography  
Photo By John Di Clemente



## German Club Plans

by Barbara Stevens

Every fall semester, Wagner clubs and organizations begin again with the returning members. One of the first things on the Fall agenda is the annual search for new members from among returning upperclassmen and the freshmen. The German Club was no exception is its drive for new members.

The Deutschen Verein is one of the oldest clubs on campus. This year the club kicked off activities with an Oktoberfest on Friday, October 6, 1972. It was a private party for returning members, Bregenz student alumni, all German students, and Faculty. The party ran from 7 pm to 12 midnight.

For those who missed the introduction party, the purpose of the Deutschen Verein is the furthering of German language, literature, and culture. The club is open to beginning German students as well as their more experienced counterparts.

The club's future plans are still pretty much in the planning stages. There is a movie on Christmas in Germany planned for November.

Interested in more information? Contact club advisor Dr. Fredrek Willecke, or Barbara Stevens (902 HVH) Publicity Chairman.

# Enrollment Decreases Linked To Quality Of Social Life

## Open Letter To President Davidson

President Arthur O. Davidson 631 Howard Avenue Wagner College Union Staten Island, New York 10301

Dear President Davidson:

As we all know Wagner has convened for it's 90th year but I don't believe it's time to celebrate, at least not at this time, with the dilemma that is facing Wagner. Even with your sincere efforts to raise enrollment we are aware of the decrease in enrollment - this is the dilemma I speak of.

Many people are aware that enrollment is down throughout the United States due to the financial situation as well as the decrease pressures of the draft. I would like to suggest that these aren't the only reasons why Wagner is "dying" in this sense. The reasons are certainly not the faculty or quality of our education because I believe the quality of the faculty can't be duplicated in many places throughout the United States.

Then the obvious question must be asked, then what is the other reason wWagner has fallen behind in enrollment. I believe the other reason is the lack of a social life, and social education at Wagner. In other words, if Wagner is going to be a "fun" or a great place to study then it must be a great place to live.

At this time all the resident students have nothing but a beer blast to attend on the weekends. As far as the weekdays go, this campus closes up at midnight. This is not a true education. We must have alternatives to the weekly beer blast, because a steady diet of anything just isn't good. If we can find something that will keep more present students on the campus during the weekends, then this will help in drawing more people to Wagner.

It seems the Administration has expended all their ideas and resources, so I felt it would be good to propose a few ideas to be "tossed" around. Wagner can be a great place, but we must take some steps for that direction. I suggest that a basis for a well-rounded education is experimentation--socially, this is lacking.

At this time I propose the following to you, Dr. Davidson, to pass along to the Board of Trustees for immediate action in light of this month's meeting:

1. Establishment of 24 hour open lounges
2. Establishment of co-ed dormitories
3. Extending of the present open dormitory hours.

Not only should the dorm lounges be open 24 hours, but I think the students and faculty should be given House 1 for a 24 hour lounge. This would provide a chance for students and faculty, as well as administration, to get together outside of the classroom or office into a more natural setting. This is a healthy situation.

But we must not stop here. Let us institute co-ed dorms for the Spring of 1973. At the same time we must not neglect the rest of the students who would not be able to participate in this educational experience. This is the reason why I call for extended hours for the residents who desire them. My plan:

- Monday - Thursday 9 a.m. - 12 a.m.  
Friday 9 a.m. - 4 Saturday 9 a.m. - 4 a.m.  
Sunday 9 a.m. - 12 a.m.

For those who wouldn't desire extended hours then I think that certain floors could be established for these people. I believe a plan such as this is fair to everyone attending Wagner.

In closing, if we accomplish these proposals, then we can let everyone know that Wagner is in the midst of a Renaissance, and that is's really happening at Wagner--in all areas!

I remain,  
Robert A. Rorke  
D111 Wagner College  
Staten Island, N.Y. 10301

## McGovern Movement On Campus

by Jim Gessler

A campus movement for the election of George McGovern and Sargent Shriver as president and vice-president, was officially opened at a general meeting on Wednesday, October 4. The McGovern campaign hopes to publicize McGovern's programs concerning the Vietnam War, trust and confidence in government, and the reorganization of national priorities. Another goal of the campaign is to generate a large student vote in the presidential election on November 7.

Once elected, George McGovern's first priority will be to end U. S. involvement in the war in Vietnam. As his first official act after his inauguration, McGovern will order an immediate halt to the bombing of North Vietnam. He will then withdraw all U.S. personnel and equipment from

### VOLUNTEERS NEEDED FOR FOREIGN STUDENTS

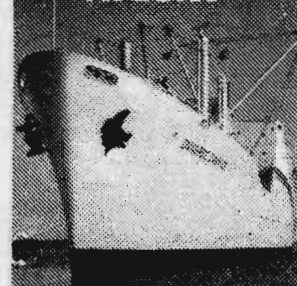
The International center at 7th avenue and 49th street needs 100 volunteers to work with foreign students helping them with conversational English. Hours are from 9 AM to 8 PM, Monday through Friday. If interested contact Mrs. Taps at 245-4137.

Vietnam, Laos, and Cambodia within ninety days. To secure the release of U.S. prisoners of war, McGovern will send Vice-President Sargent Shriver to Hanoi for negotiations. Once the U.S. prisoners of war have been returned, U.S. bases in Thailand will be abandoned and U.S. involvement in the war will have ended. McGovern will also reduce needless defense spending on unneeded weapons and troops stationed abroad. George McGovern believes that priorities for spending government money should be moved away from wars and weapons of death to programs that will help save lives, especially in our own country. Therefore, he will shift defense and war spending to domestic spending in programs such as an anti-poverty program, and aid to the cities. McGovern also hopes to close tax loopholes

and reform the tax structure so that every taxpayer pays an equitable share of the tax burden. Through these reforms, McGovern hopes to regain public trust and confidence that the government is working for them rather than for business and the special interests. If successful, these reforms should pave the way for more far-reaching reforms.

The McGovern people will be distributing campaign literature, doing door-to-door canvassing in the dorms, and holding meetings and rallies in the next few weeks. The McGovern Campaign has an office in Room 221 of Wagner Union. If you would like to work for McGovern or just talk about the campaign, you can visit the office from 7 p.m. until 10 p.m. any weeknight.

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# Foreign Languages, Wagner, and You

by Pam Roth

Many people have often wondered what the benefits are of learning a foreign language on a college level. For the most part, college students have a basic idea of what they want in life and feel they have no need for another language. You may be planning to be a doctor or a nurse or teacher and feel that a foreign language would be a waste. Not so. Spanish is the second language of America. The United States has a Spanish background and Spanish is widely spoken in this country. Anyone who works directly with the public may sometimes find himself not understanding his client or his student because he does not know their language. In all large cities in the country, a professional has to be equipped with a good knowledge of Spanish in order to communicate better with these people.

The U.S. has also relations with Latin American countries. In order to promote friendlier relationships we should learn Spanish. This would help us gain cooperation and understanding from them. The United States strongly needs to come closer to the Latin American world.

Several methods are used in teaching Spanish on a college level. The first level is called the silent way. This is the method used for elementary foreign language study. Classes are conducted very informally. There is no lecturing by the professor. In fact, the professor tries to do as little speaking as possible. The object is for the students to learn by teaching each other. No basic grammar rules are taught. The students, for the most part, learn to speak the language and develop an accent. They do this by helping and correcting each other. No textbooks are used and no

specific homework is required so regular class attendance is very important. Only Spanish is spoken during the class but normally the last five minutes is devoted to asking questions in English. This proves to be a very effective way of learning the basics of Spanish or any other foreign language.

The second method of learning Spanish is the traditional way. Grammar is stressed, along with sentence structure and vocabulary. Good pronunciation and intonation is required for good conversation.

The third method is conversational. This is basically for doctors, nurses and people on a hospital staff. This is a basic Spanish course that includes the use of medical terms. It is strictly conversation and very little grammar is involved. The professor stresses the routine conversation which frequently takes place in a hospital between doctor and patient. The text used was written by two doctors.

Those people who major in Spanish may be wondering what is in store for them after college. In the field of teaching there are many opportunities for young people. Spanish is widely taught all over the nation. The Board of Education in some states keep Spanish as a requirement for graduation from high school.

There are opportunities in Spanish-speaking countries for those who want to go into business. American corporations in Latin America prefer having American executives who speak Spanish rather than the natives. This is because they want people who are familiar with the American way of life.

The United Nations is also a possibility for foreign language majors. Translators and interpreters are always needed. So all you foreign language majors--have no fear! There is a place in this world for you!

## J. Geils Band Full House

by Mike Rosen

The J. Geils Band is America's answer to the Who. Not since (Jay) Griels has a band emerged that can rival the Who's conscience wall of sound and their showmanship. The Geils Band has a firm grip on the basics of rock and roll. They make no bones about it. Each song on this album pulsates with the hard packed energy of a live concert. A full house indeed!

"You heard of the Boo-Ga-Loo? You heard of the Boston Monkey? You heard of the Philly Freeze? We got the Detroit Demolition here for you," announces Peter Wolt. The band shifts from Whammer Jammer to Hard Drivin' Man. The titles speak for themselves. Magic Dick on his Lickin' Stick (harmonica) trades solos with Seth Justman on keyboards. J. Geils whips out rhythm and lead. The bass and drums hold the beat. Peter Wolf dances, always, talks in verse and sings with Peter Townshend like energy. They never stumble.

While the Who offer operas, the J. Geils Band present Chicago Blues, Muddy Waters style. Side two opens with a nine minute rendition of John Lee Hooker's "Serves You Right to Suffer." If nothing else, the song proves who the most powerful contemporary band is. And it all ends with the Geils theme song, "Looking For Love." You can go to bed but not to sleep with this music.

## Environmental Grad Program at Richmond

The first City University graduate program in Environmental Science is aiming to educate highly trained scientists in those areas of the biological, physical, and social sciences which are areas important in solving environmental problems.

Urban planning, resource management, computer simulation of pollution problems, and systems analysis will be some of the skills the graduates of this program will carry with them to the environmental problems of our time.

In addition to course work, students are required to work on projects directly related to

existing environmental problems in the Staten Island and the Metropolitan Areas.

The program leading to a M.A. degree was developed after a thorough review of existing specialized programs in this field. It takes a multidisciplinary approach to environmental study, grounded in the physical, applied and biological sciences.

The faculty involved in the development of the program are: Professors Ira Blei, Biochemist; Alfred M. Levine, Physicist; Stephan Taub, Biologist; George Vachtsevanos, Engineering Scientist; Leonard P. Winkler, Engineering Scientist, Nan-Loh Yang, Chemist.

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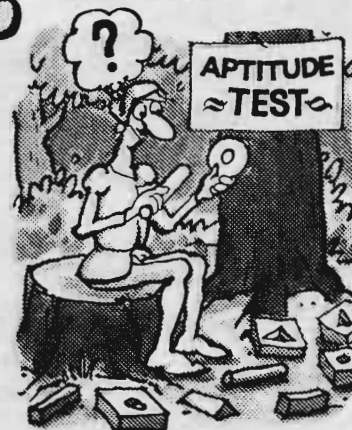
## MORE THAN ONCE UPON A TIME



ONCE A KNIGHT ENLISTED IN THE KING'S DRAGOONS,



AND FOR THE PRICE OF A 6-PACK OF SCHAEFER BEERE, HE WAS PROMISED A SPECIAL TEST...



WHEREIN HIS TRUE TALENTS WOULD BE REVEALED...

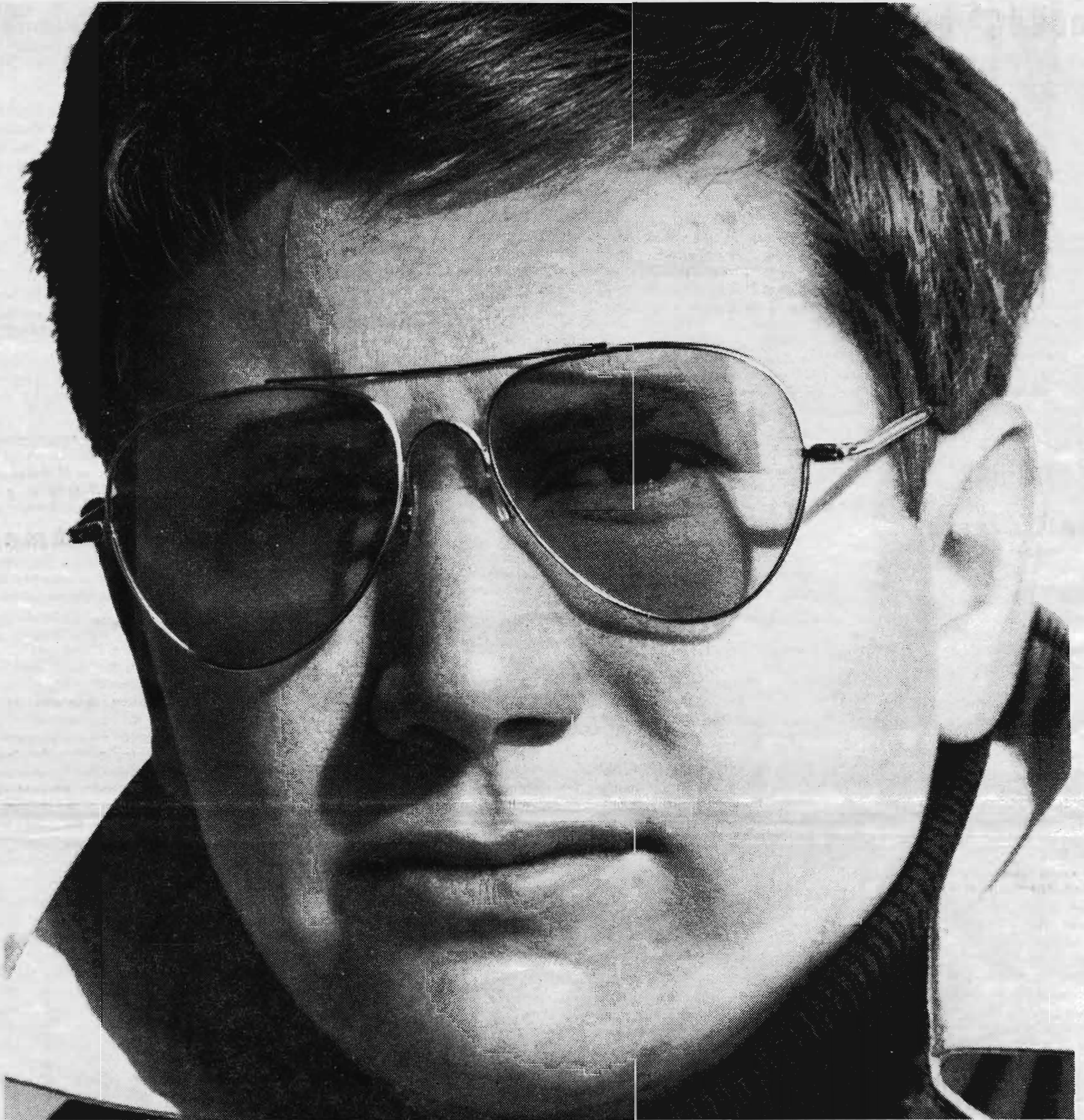


## WHEN YOU'RE HAVING MORE THAN ONE

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**When this 25-year-old researcher wanted to investigate a possible cancer treatment, we gave him the go-ahead.**

**We also gave him the right to fail.**

At Kodak, it's not unusual for a 25-year-old like Jim Carroll to win the title of senior research physicist. Like any company involved in a lot of basic research, Kodak has felt the pressure of modern technology and the need for young, fresh thinking. So we hire the best talent we possibly can, and then give them as much responsibility as they can handle. Whatever their age.

We have departments and divisions, like any company. What we don't have are preconceived ideas about how an expert scientist's time should be spent. So when we received a request from the medical community for assistance in experimenting with lasers as a possible cancer treatment, we turned to 25-year-old Jim Carroll, who is deep in laser tech-

nology, and gave him the go-ahead. He built two half-billion watt laser systems, one of which Kodak has donated to the National Institute of Health.

The lasers proved unsuccessful in treating cancer, but we'd make the same decision all over again. We entered laser technology because we have a stake in business. We let a young researcher help the medical community look for a means of cancer treatment because we have a stake in the future of mankind.

To put it another way, we're in business to make a profit. But in furthering our own needs, we have often furthered society's. After all, our business depends on our society. So we care what happens to it.



**Kodak**  
More than a business.



# Soccer Team "Psyched" by Friday The 13th

## Seton Hall Employs Unfair Tactics

by Dan Dudde

It was inevitable. The Wagner Soccer team was doomed from the start. It was Friday the thirteenth!

The first indication of trouble came when only one referee showed up for the game. The referee that did show up was nearly seventy years old, with a definite need for Geritol or something like that. He was unable to keep up with players

(to be expected) and therefore many instances of foul play passed unnoticed.

Within twelve minutes of play, Seton Hall scored their three goals. Two of those were unfairly obtained since they had men obviously off-side. Obvious -except to the referee who was trying to catch his wind back on the Seton Hall half of the field. In all fairness, their

third goal was on a beautiful head ball.

After those goals, the game was mostly Wagner's. It's incredible that no more than one goal was scored for the Seahawks. Perhaps the offense has yet to find the net. But on a perfect shot from left wing Nelson Dudde lofted the ball over the opposing goalie's head into the top right corner of the

goal.

If this article seems merely filled with excuses for not winning; it is because the Wagner Soccer Squad knows it is much better than its scores indicate. With the kind of help and encouragement it gets from some members of the Phys. Ed. department, it's amazing that the team has the guts and spirit to continue.

### CLASSIFIEDS

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CLASSIFIED LPS -- found Fred Mc. LK (VP), Ph.D.

## Day Care Volunteers Needed

Nicky Taylor

### Energy Crisis

(cont. from p. 1)

CONVENTIONAL STEAM POWERED ELECTRICAL POWER PLANTS (Fossil Fuel Type). The basic principle for running these is that fossil fuels are burned to make steam which turns generators that make electricity. ADVANTAGES: They are built and in use. DISADVANTAGES: They pollute, kill animal life (and possibly human life), are inadequate for present electrical demand and are soon to be without a fuel supply.

#### HYDROELECTRIC DAMS.

Essentially these operate similar to steam plants except the power of the water is used to turn the generators rather than steam. ADVANTAGES: non-polluting, unlimited source of electrical energy. DISADVANTAGES: are only 4% efficient, inadequate for electrical demand, require large lakes

CONVENTIONAL NUCLEAR POWER PLANTS (Uranium 235 Type). Same principle as steam model except nuclear reactors are used to create the steam. ADVANTAGES: It is another short range possibility. DISADVANTAGE: It is less efficient than the conventional power plants which are only 30% efficient, and the source of Uranium 235 will be exhausted by 1980.

CONVENTIONAL NUCLEAR POWER PLANTS (Plutonium 239 Type). Commonly called the Breeder Reactor. Also uses atomic energy to create steam. ADVANTAGES: Alternate source of energy and will provide 64,000 years of energy. DISADVANTAGES: Atomic explosions, and cross country transportation of highly radioactive Plutonium 239 which has a half life of a few thousand years.

GEOTHERMAL DRILLING. This is drilling holes into the earth to tap the natural sources of steam. ADVANTAGES: Perpetual supply of steam if handled properly. DISADVANTAGES: Perpetual supply of earthquakes if handled improperly.

TIDAL GENERATORS' These are paddle wheels placed off-shore to turn with the tide. The paddle wheels are connected to generators. ADVANTAGES: Perpetual source of energy; non-polluting. DISADVANTAGES: May foul-up the tides, interferes with scuba divers, not a sufficient source of energy.

OCEANIC WINDMILLS. Windmills that float on the ocean and that take advantage of the constant oceanic winds. ADVANTAGES: Unlimited source of energy. DISADVANTAGES: Too Quixotic.

WOOD. ADVANTAGES: To some extent replenishable. DISADVANTAGES: Old-fashioned, and no longer sufficient to meet present needs. Also pollutes.

\*\*NUCLEAR FUSION\*\* The source of energy meeting all the requirements for energy demands. Although it is not perfected yet (for that matter the conventional steam turbines aren't either), the nuclear fusion unit will provide heat enough for running steam generators and heat enough for melting wastes such as automobiles, old dish-washers, and beer cans. Beyond this the fusion unit, if hooked up with a magnetic separator unit, will be able to turn waste into its basic elements. What is even more advantageous about this power supply is that the radioactive materials used are relatively non-toxic and that there is absolutely no chance of any atomic accidents, even if the power plant were left unattended for a few years.

Probably the only disadvantage of the fusion power plant is that there is not enough Federal Money being used to research it. More money is being allocated to the conventional nuclear power plants. Infact, there is only \$30 million allocated to developing the fusion power plants, whereas \$800 million is being spent yearly to develop a laser death ray. Dr. Henkel suggests the present administration has mixed its priorities in this area.

Yet, Dr. Henkel expresses only optimism for private enterprise will soon realize the advantages and the profits of the nuclear fusion power plants.

#### DAYCARE VOLUNTEERS

Fellowship Day Care, Mariner's Harbor (3010 Richmond Terrace, S.I., 981-9215), is a community controlled, volunteer staffed day care facility. The Mariner's Harbor community has a high priority need for expanded day care facilities. The only facility in the community now has 65 children enrolled, and 100 plus on the waiting list.

In response to the need a small center was begun in the Fellowship Baptist Church (17 children with 30 plus on the waiting list). Unfortunately, Rev. Philips, the clergyman who heads the center, has not received any encouragement or financial support for the project from the city. He was told that the community has enough day care facilities.

Volunteers are DESPERATELY needed. The center is open from 7 a.m. to 7 p.m.. Please call for information or see Mrs. Jakob in the Nursing Department.

(cont. from p. 1)

Wagner and Notre Dame Colleges but also for the Black people in his community of Bedford Stuyvesant.

Nicky had been active in a project to eliminate drugs and to help rehabilitate the addicts of Bedford Stuyvesant. He had planned to teach school in his neighborhood in the fall.

He was a strong beautiful Black man "and we will know him then for what he was and is - a Prince - our own Black shining Prince."

Nicky was an admirer of Brother Malcolm X and it is only appropriate that the words, which Ossie Davis so eloquently spoke at the funeral of Brother Malcolm's be quoted here: "However much we may have differed with him or with each other about him and his virtue as a man, let his going from us serve only to bring us together, now."

