NIH Students Work On Research Projects

Identification of Beta-carbonyl Compounds, synthesis of Eta 1, 2 di-ketal, chelates, reduction of Alcoholsubstituted Acetylens—these are just a few of the invol ved research projects that junior and senior students have undertaken here at Providence College. Due to the current trend of such projects ranging from forming films to determining the atomic structure of atoms, many students may be quite involved, practically all students agree that it is extremely rewarding. Some of the future scientists, their interesting subjects, and feelings about their projects are as follows:

Professor: This junior, working along with Dr. Re- rick, is concerned with the structure of three classes of alcohols into a more structural level. Dr. Pyter has regular lab periods and puts in many ex- cellent hours of his own. He believes that this freedom has helped tremendously in his coming to terms with his subject.

Mr. Connors and Stephen Jonpert: Working with Dr. Boyko, these two students feel that they have the most in- teresting of all the projects. Their official work concerns what is known as "X-Ray Diffraction studies of Copper Chelates." What they actually do, however, is to study, re-study, and try to determine the atomic structure of the atom. Although there is no way they haven't come up with any world-wide discoveries, they feel that their work has been extremely profitable and that they are learning a lot more than we could have in regular art school.

Another junior working under the super- vision of chemistry is Dennis Reast. Under the direction of Dr. Gallo, he attempts to electrically reduce carbylch (Continued on Page 7)

Hickey Lab Dedicated Mon.; Several Dignitaries Speak

The new Edward J. Hickey Laboratory for Health Science Research was dedicated here at ceremonies in Albertus Magnus Hall Monday night at 8 o'clock. The Right Rev. Monsignor J. Hickey of Detroit gave a bio- graphical sketch of his father, the late Edward J. Hickey, after whom the building is named.

Congressman John E. Fogarty spoke on "The Partnership Between Doctor and Patient, Better Health," and Dr. Vincent E Price executive secretary of the N.S.M.S. and Surgeon of the National Cancer Institute of the U.S. to 1948 and in 1951 he completed his senior surgeon program and was enrolled at the Head Enzymes and Metabolism Sec-

The Very Rev. Vincent C. Dore, O.P., president of the college gave the address of wel- come, and the Rev. Frederick C. Hickey, O.P., director of the Science Honors Program was in charge of the overall arrange- ments.

The new building was made possible through a bequest from the estate of the late Edward J. Hickey of Detroit, grants from the National Institute of Health, the National Science Foundation, and several private foundations, together with contri- butions from a number of leading Rhode Island business concerns and individual bene- factors. Besides the regular labs for the students concerned with the NIH program for promoting research, the build- ing also contains an animal room, a conference room, a greenhouse, and a storeroom.

Frost Reading Test Scores Interpreted By Dr. Lennon

According to a recent report from the Dean's office, the re- sults of the Freshman Reading Test taken during orientation week have finally been tabu- lated. Reverend Joseph L. Lennon, O.P., Dean of the col- lege, explained that this test was used to cover a wide range of skills known to be indispensable to effective reading of the work-study type.

These tests covered three broad areas of silent reading ability: (1) rate of reading at a controlled level of comprehension, (2) comprehension of words, poetry, sentences, paragraphs and longer articles, and (3) ability to use skills required in note-taking and oral expression.

Medium subtest scores of Prov- idence College freshmen were compared with the national median, standardized on a na- tional sample of 3600 cases. "It is my opinion," said Fr. Lennon, "that 3600 cases constitute an insufficient num- ber to provide a valid criterion of comparison." He said, how- ever, that the scores of our freshmen coincided quite close- ly with the national norm.

Individual results will be mailed to the homes of the stu- dents (Continued on Page 3)

Fr. Gardner Outlines Factors Causing PC Student Dropout

In an effort to ascertain the factors causing students to drop out, the Cowl discussed the problem with Father Gardner who outlined three general rea- sons why a student who matricu- lates at a college does not re- main until graduation.

1. The dinner-dance from the estate of the late Edward J. Hickey of Detroit, was set at $4.50 per couple.

2. The dance is the first of its kind at PC and will be open to members of the Carolan Club of the College. Tick- ets are on sale in Raymond Hall during the evening meal.

3. The dinner-dance in the snack bar of Raymond Hall on Saturday, December 8. The dinner-dance from 5 p.m. to 10 o'clock. Admission will be charged at the door.

4. The dinner-dance will be conducted by the Providence College dance orchestra which will be under the direction of Dr. Price executive secretary of the college.

5. "Broader Implications of Bio- medical Research," Dr. Price executive secretary of the college has written an article which will be presented at the Head Enzymes and Metabolism Sec-
Rate Is Higher From 4-8 P.M.

By PETER J. WHITE

One of the first motor vehicle accidents in America is reported to have taken place in 1895 in the state of Ohio. The collision in which one of the drivers was killed occurred on the main street of a town at a time when there were but two cars in the entire state, the two involved in the accident.

At that time the total number of registered motor vehicles in the United States is said to have been four cars.

Today, there are over 72 million motor vehicles in use all over the world, and those well over 130 million motor vehicles have been built. A little less than half that number have reached the scrap pile, and the number that have arrived there because of accidents is not known.

Since the introduction of the automobile nearly 65 years ago more than one million people have been killed in the United States as a result of mishaps. It has been computed that automobile accidents have taken more lives than were claimed by all of the wars in which American men have fought since 1775.

Motor vehicle deaths could be rated as seventh or eighth among the eight principle causes of fatalities among the people of our country.

It has been estimated that one of every two persons living today will be involved in a serious automobile accident during his lifetime.

Death is a frequent visitor to the American Highway as it is estimated that one death occurs every fourteen minutes as a result of a motor vehicle mishap in recent years these deaths totaled 36,000 persons annually. However, as more vehicles are put on the American highway system the fatality rate seems only to have one alternative—to turn upwards unless American motorists change their driving habits.

Injuries inflicted by motor vehicle accidents occur much more frequently than the deaths from these accidents. In a recent year nearly 1,350,000 people were injured in car accidents. This total includes some 20,000 pedestrians. Often an accident will cause permanent injuries and in turn handicap the lives and opportunities of their victims.

Accidents have occurred in all types of roadways and wherever automobiles have travelled. Yet, more motor vehicle accidents tend to cluster in certain locations. These areas are known as high accident frequency locations.

State Motor Vehicle Bureaus keep a record of such places.

Met Club Meets Mon.

The next regular meeting of the Metropolitan Club will be held next Monday evening, November 19 at 6:30 p.m., in Aquinas Hall Lounge. The most important matter of business will be the formation of committees for the Christmas Dance.

"The success of this dance depends upon the full cooperation of members," said president Peter J. Conn. "I urge all members to be present at tonight's meeting."
Economic Promise Cited in Lecture

Rhode Island has emerged into the Sixties with real economic promise for the future because small businesses have become a "vital factor" in compensating for the loss of textiles.

Such were the comments of Rev. Charles B. Quirk, O.P., Chairman of the Economics Department at Providence College. These views were given at the opening lecture of a series under the auspices of the Thomistic Institute of Industrial Relations last Sunday.

Speaking at Alumni Hall, Fr. Quirk said that Rhode Island industrial trends, "unlike the nation as a whole, seem to reflect the economic promise for the future into the Sixties with real economic promise for the future." He added that textiles had been a "vital factor" in compensating for the loss of textiles. "Today there are 39,000 people engaged in such Rhode Island industries as electronics, plastics and chemicals and other miscellaneous industries."

He added that electronics had risen to fifth place in the state's manufacturing complex. The loss in the state's economic life, created by the departure of textiles, is about to disappear, he stated.

He cited the 100 per cent financing plan which made possible the addition of new plants costing $13,600,000 since 1959, the "persuasive hard work" of the Weekapaug Group, a favorable relationship between labor and management; the work of the Industrial Development Commission; and the naval installations which are presently over 1.959 million dollars, all contributing to the improvement.

Nationally, Fr. Quirk concluded, an incentive to increase the country's gross national product is needed. He said a tax cut of 10 per cent would increase the country's gross national product by 3 per cent. "For every 1 per cent decrease could have "a tremendous impact" on industrial modernization."

The dance, at which refreshments will be served, will be one of a series of seminars and non-floral. Tickets will go on sale beginning Monday, November 19. They may be purchased during the dinner period in Alumni Hall and during the dinner hour at Raymond Hall.

For those who are not attending the Ring Dance, distribution of rings will begin on Monday, December 3. Rings will be given to the juniors upon full payment.

Rings: (Continued from Page 1) The dance, at which refreshments will be served, will be one of a series of seminars and non-floral. Tickets will go on sale beginning Monday, November 19. They may be purchased during the dinner period in Alumni Hall and during the dinner hour at Raymond Hall.

For those who are not attending the Ring Dance, distribution of rings will begin on Monday, December 3. Rings will be given to the juniors upon full payment.

Rings: (Continued from Page 1) The dance, at which refreshments will be served, will be one of a series of seminars and non-floral. Tickets will go on sale beginning Monday, November 19. They may be purchased during the dinner period in Alumni Hall and during the dinner hour at Raymond Hall.

For those who are not attending the Ring Dance, distribution of rings will begin on Monday, December 3. Rings will be given to the juniors upon full payment.

Rings: (Continued from Page 1) The dance, at which refreshments will be served, will be one of a series of seminars and non-floral. Tickets will go on sale beginning Monday, November 19. They may be purchased during the dinner period in Alumni Hall and during the dinner hour at Raymond Hall.

For those who are not attending the Ring Dance, distribution of rings will begin on Monday, December 3. Rings will be given to the juniors upon full payment.

Rings: (Continued from Page 1) The dance, at which refreshments will be served, will be one of a series of seminars and non-floral. Tickets will go on sale beginning Monday, November 19. They may be purchased during the dinner period in Alumni Hall and during the dinner hour at Raymond Hall.

For those who are not attending the Ring Dance, distribution of rings will begin on Monday, December 3. Rings will be given to the juniors upon full payment.

Rings: (Continued from Page 1) The dance, at which refreshments will be served, will be one of a series of seminars and non-floral. Tickets will go on sale beginning Monday, November 19. They may be purchased during the dinner period in Alumni Hall and during the dinner hour at Raymond Hall.

For those who are not attending the Ring Dance, distribution of rings will begin on Monday, December 3. Rings will be given to the juniors upon full payment.
Library Losses...

Ordinarily, The Cowl, acting in consonance with its designated role as the official student publication, focuses its editorial attention on the faculty and administration of Providence College. It must be admitted that, occasionally, however, an issue arises which, although not belonging in that category, is still too important to be ignored. The purpose of this article is to bring to the attention of all students of Providence College an important and serious problem that has been ignored for far too long.

The problem in question is the failure of certain students to cooperate in a mature manner with the administration. The specific instance we are concerned with will serve to illustrate the kind of failings which have led us to undertake this plea for co-operation.

Many departments, in recent years, have emphasized the need to hold students responsible for the serious and tempting violation of the rules we have established. A tremendous feeling of anxiety and moral courage overcomes the individual who winks the dudley-winks.

It is foolish, in my opinion, to make academic, financial, or other difficulties, would you seek appropriate aid or just give up your college career? By providing help in time you would probably put an end to this crisis and graduate. In quitting you will become just another dropout statistic. Today, more than ever, the United States needs a well-trained and more better-trained college graduates to cope with the ever-increasing number of traffic accidents. We at The Cowl sincerely hope that they will take cognizance of the value and responsibility attached to this opportunity and redouble their academic efforts. By doing this they will become proud graduates of Providence College instead of dropouts who didn't quite make it.

Drive Safely...

Motor vehicle deaths could be rated as the seventh or eighth of the principal causes of fatalities among the people of our country.

It is estimated that one of every two persons living today will be involved in a serious automobile accident. This is a frightening statistic. Death is a frequent visitor to the American automobile driver—we as it is estimated that one death occurs every 29 minutes as a result of a motor vehicle accident.

Accidents have occurred on all types of roads, in all parts of our country. Each of these accidents has been a tragedy to some family. All have been caused by the negligence of the individuals involved.

What can we do in a positive way to curb the increasing number of traffic accidents?

Safety experts have suggested a number of proposals including driver education, roadway improvement and enforcement, and traffic and tightening up of traffic laws in general. But actually how can any of these be effected when the first thing being done on the individual level.

May we at The Cowl advise, especially in the light of the dangerous driving weather which lies ahead, that every Providence College student exercise extra degrees of care and caution in the coming months. By doing this, he will make an effective contribution toward reducing the number of automobile accidents which might terminate not only his college career but his life as well.

Letter's to the Editor

Woman's Day? Not Us

To the Editor:

The following department of Miss Geer and Mrs. Hanson was prepared to sit back and watch the columns of the Dudley Do-Right's magazine, as free from vituperative articles as to be entirely a question of Woman's Day. This is not to be. The whole universe has aroused the folks again.

A rather loosely written article, The Cowl has printed in this issue of The Cowl we have "charlatans" in our classrooms. We have teachers who have been living high off of charity, and some who don't; some who can teach, some who can't. Interestingly enough, while this is going on, the students play Har-tee. Might I suggest that this is foolish. Tid-ely-winks is much more cur- and gives a worse satisfac-

Tid-ely-winks is much more cur-

sional. A tremendous feeling of anxiety and moral courage overcomes the individual who winks the dudley-winks.

It is foolish, in my opinion, to make academic, financial, or other difficulties, would you seek appropriate aid or just give up your college career? By providing help in time you would probably put an end to this crisis and graduate. In quitting you will become just another dropout statistic. Today, more than ever, the United States needs a well-trained and more better-trained college graduates to cope with the ever-increasing number of traffic accidents. We at The Cowl sincerely hope that they will take cognizance of the value and responsibility attached to this opportunity and redouble their academic efforts. By doing this they will become proud graduates of Providence College instead of dropouts who didn't quite make it.

Drive Safely...

Motor vehicle deaths could be rated as the seventh or eighth of the principal causes of fatalities among the people of our country.

It is estimated that one of every two persons living today will be involved in a serious automobile accident. This is a frightening statistic. Death is a frequent visitor to the American automobile driver—we as it is estimated that one death occurs every 29 minutes as a result of a motor vehicle accident.

Accidents have occurred on all types of roads, in all parts of our country. Each of these accidents has been a tragedy to some family. All have been caused by the negligence of the individuals involved.

What can we do in a positive way to curb the increasing number of traffic accidents?

Safety experts have suggested a number of proposals including driver education, roadway improvement and enforcement, and traffic and tightening up of traffic laws in general. But actually how can any of these be effected when the first thing being done on the individual level.

May we at The Cowl advise, especially in the light of the dangerous driving weather which lies ahead, that every Providence College student exercise extra degrees of care and caution in the coming months. By doing this, he will make an effective contribution toward reducing the number of automobile accidents which might terminate not only his college career but his life as well.

Editor's Note: The letters to the editor column is open to all of the Providence College students. All letters will be printed and signed whenever possible. All signed letters will be withheld upon request.

We would also like to remind the members of the faculty that the members of the Providence College staff are also open to them should they have a subject of current interest and which are not usually discussed in the classroom. These articles should be submitted under the title of Faculty Comment.
By RAY LAJEUNESSE

The circus-carnival atmosphere that accompanied meetings has been an American tradition since the "leg eatin' contest" organized by Henry Harrison in 1840. Mass meeting breath, rubber-faced jesters, juggling parades, party badges and other insignia, and campaign songs, have been the traditional instruments of democracy.

It was in this spirit that President Kennedy flew into Indianapolis, Indiana, several weeks ago to back Democratic candidates for federal office. At the municipal airport there, he gave a stirring speech, lambasting all Republicans as the embodiment of evil and praising all Democrats as paragons of virtue.

It was in this same spirit that members of Indiana Young Americans for Freedom of the United States each year.

The treatment received by the group was anything but gentle. One picketer after being knocked down was kicked in the kidneys. A second was beaten with a belt and a number of loose teeth were knocked out. One picketer after being struck in the head with a brick was given a severe beating. All of these incidents and were unreported. The students say that their assailants were wearing straw hats advertising the candidacy of Birch Bay for the Senate and sporting AFL-CIO and other union pins. The YAF members also charge that there were police who saw the incidents and were unresponsive to the supplications of the students.

"People to People" Will Meet Friday

Three students from Providence College have been designated to attend the second Rhode Island state conference of People to People, "People to People" University Program. This meeting, which was held with the State House on Friday, Nov. 16, was a part of a series of similar meetings held in Rhode Island, New Jersey, and New York, with headquarters in Los Angeles, South America.

This conference, which is to be attended by 400 students across the country, is intended as a follow-up meeting in order to try to get a more extensive understanding of the second meeting was held at the State House on Oct. 15.

People to People University is organized to the fostering of a better understanding of America and its people among the 79,000 students from other nations who come to the United States each year.

Front Row Center

By Paul Ferguson

Last Wednesday evening Loew's State Theatre, in conjunction with Seymour Lisand presented the Limeliters, billed as "the nation's most exciting singing comedy quartet." The group has been compared to the Kingston Trio and has unjustly been labelled an offshoot of the current crop of pseudo-folk groups.

It is really difficult to categorize the Limeliters. They cannot, as we have already stated, be considered folk. Their arrangements of the old songs are less tight and boring than the original. It is true that this trio sings folks songs, but from this point all similarity to the Kingston Trio and other such groups ends.

In the song "A Day in the Life of Max Gloomis," this trio gives its own interpretation of this old song. The Limeliters have been compared to the Kingston Trio and have unjustly been labelled an offshoot of the current crop of pseudo-folk groups. The Limeliters are more interesting to the Limeliters.

The Limeliters, however, believe that these songs are poorly written and brought to their full fruition. This was an apparent fact last Wednesday evening.

Although the audience was not as responsive as that which attended the Kingston Trio last week the Limeliters were more mature. The people were hesitant at first, but after a few witty remarks unpublished during the first meeting. The first meeting was held at State House on Oct. 15.

People to People University is organized to the fostering of a better understanding of America and its people among the 79,000 students from other nations who come to the United States each year.

Students in the News

One of the picketers, a student from the University of Indiana, described his experiences as follows: I was standing there holding a sign. I felt some- one touch me and I turned around and was hit in the jaw. I caught a brick with the side of my mouth pretty freely and spitting blood. I got loose and over to an officer standing nearby. "You saw what happened," I said. "What are you going to do about it?" He just ignored me.

By the time President Kennedy arrived to make his speech, all conservative oppo- sition had been silenced. It is reasonable to assume that the President knew nothing of the actions of the Bush supporters and would not have sanctioned them if he had known of their existence; nor does it change the fact that they did occur.

The First Amendment to the Constitution guarantees the right to free speech and peaceful assem- bly, implicitly guarantee- ing the right to picket. Whether or not one agrees with the methods of the Indiana YAF, their right to express their views is perfectly re- spected. By the same token one must condemn those who attempt to stem the tide of extreme of violence. (Source: Bridgeport Post, Nov. 11, 1962)

Students appearing in this col- umn are not necessarily those of THE COWL or the College.

Memo from the Editor

During the next seven months members of this year's senior class will be in- vestigating the opportunities offered to them by the armed services, graduate schools, and business.

A considerable amount of material concerning the armed services and graduate- schools can be procured from the U. S. government and from members of the faculty of the College. Information on opportunities in the business field can be secured from the placement office and from the representatives of business when they come to the campus for inter- views. But even the information received from these two sources is limited.

Last year a proposal to establish a "Business Career Days" on this campus was made but it appears that this idea was lost in the fervor of other activities carried on during the school year.

Such a program could be established quite easily if the officers of the senior class, the placement office, and the alumni class could work together. The officers of the class would be responsible for promoting interest among class members, and once this interest is aroused, they could present their case to the other two offices.

The placement office and alumni office, then, working together, could invite interested firms to set up displays or to arrange an interview program during these "Business Career Days."

The program could not only be opened to the seniors but also to the other classes of the College so that they could learn about business careers and what is expected of them if they feel they are inclined toward such a career.

PErTER J. WHITE

PROVIDENCE COLLEGE Providence, R. I.

PETER J. WHITE, Editor-in-Chief

MANAGING EDITORS: Peter Whelan, Frank Masone

ASSOCIATE EDITORS: Peter Conn, Michael McIntyre

NEWS EDITOR: Earlville Bryson BUSINESS MANAGER, Jerry Donoia

ASSISTANT EDITORS: Peter Conn, Michael McIntyre

SPORTS EDITOR: Peter Conn, Michael McIntyre

COPY EDITOR: Frank Devlin, Jim Piazza

ASSIST. COPY EDITOR, Paul Ferguson, Bob Drue

CIRCULATION MANAGER, Joe Keeling

Published Each Full Week of School During the Academic Year by Providence College, Providence 10, R. I. Second Class Postage Paid at Providence, R. I.

VINCENT'S PRESCRIPTION PHARMACY "THE BEST IN DRUGS"

VINCENT N. CIAVATTI, Reg. Pharmacit 364 Admiral Street GA 1-6003
6

THE COWL, NOVEMBER 14, 1962

Dropouts . . .

(Continued from Page 1) over, some students really do not belong in college. "The idea that society today demands a B.A. degree forces us in deluding ourselves that everyone should attend college and denies the fact that a college education is not suitable for everyone," commented Father Gardner.

Motivation, which is created by the educational goals and intellectual ideals instilled in a student in his home or secondary school environment, has sometimes even been virtually non-existent. The previous palliative of understaffed and untrained guidance departments in most secondary schools is presently being replaced by effective ones with more and better-trained personnel. Father Gardner predicted that "High school seniors will soon be able to consult with many more high-

expedience-guided workers. Through their counsellor's knowledge they will be able to employ a greater degree of realism in choosing courses and institutions." A college facet of the motivation problem is that of the student who attempts to engage in too many extra-curricular activities and fails as a result. He places his studies and the goal of acquiring knowledge on the last rung of the ladder of his interest. He thus becomes immersed in too many secondary aspects of college life because he lacks the true motivation necessary for an effective stu-

dent. Father Gardner stated that "Enough students participate in too many extracurricular activities and fail as a result. Though there are exceptions of excessive and insufficient participation on either side.

A second category of dropouts includes those who did not cover that college life is too rigorous for them. These are the weaker students with only fair or borderline high school records. They are unable to withstand the academic pressures and strains at the collegiate level and end up hopelessly adrift in a sea of self-inadequacy and confusion before they decide to leave. Father Gardner emphasized that "As soon as a college student realizes he is floundering, he must immediately seek assistance if he is to avoid drowning academically or otherwise."

Other complications of life include emotional difficulties and financial problems. All though students should not let a lack of funds discourage them from attending college, they should realize their own home economic situations. "We can afford this college or would a nearer and less expensive one be less of a financial burden?"

One method of solving the financial problem is the National Defense Student Loan. This year PC students have received more than $225,000 from this source. Father Gardner stressed that the problem of financial difficulties has not been too serious at Providence College. "Of course, the student body is receiving some money, but there is no problem in the form of loans or grants from the College. Many freshmen are being brought in from outside agencies. Very few students do not complete their education at Providence College because of financial reasons alone. There are usually com-

plications at home which force an undergraduate to withdraw."

In discussing means of reducing the dropout rate in the future, Father Gardner stated, "We hope to keep reducing the attrition rate realizing that there will always be a "drop-out" percentage. We can do this by using more selective admission procedures and by providing more effective college guidance to help carry those students who are in trouble over the rough spots. At Providence College a realistic guidance program in which department heads, professors, and the Dean of Men coordinate student guidance is now in operation. Guidance of this type is feasible and effective because it is a part of the entire College if it is to be successful."

Cigarette Company Names Representative

As a part of its work scholar-
ship program, Philip Morris In-
corporated has announced that Michael Darcy has been select-
ed campus business representa-
tive here. The appointment is for the full school year.

The cigarette firm, which was first in the industry to support college scholarships for this method, also makes grants for higher education to children of its employees and contributes to educational and research in-

stitutions in many areas of the country.

Son of Mr. and Mrs. James C.
Darcy of 219 Warwick Avenue, Cranston, Darcy will serve as liaison between this campus and the company's New York offices and will work on advertising and promo-

tion projects for Philip Morris, Parliament, Marlboro and Al-

pine brands.

Now in his 3rd year at Prov-
idence College, Darcy is active in the Cranston Club and serves as its sec-

etary and is a business man-

agement major.

Ring Fittings

Fittings for junior class rings will be held tomorrow, Thursday, in the College Book-

store from 10 a.m. to 2 p.m. for those who have not yet been measured for rings. A $10 de-
posit will be required when or-

dering a ring.
NIH Students...

(Continued from Page 1)

drates with hydrogen iodide, or, more specifically, to try to make petroleum out of sugar. Ruest intends to go on with chemistry in graduate school and believes that these projects have made him "better prepared for my future plans."

John McGowan, in coordination with Dr. Fish of PC and Dr. Kling of Brown University, has gathered some extremely interesting data on the stimulation of selected areas of the rat brain. At Brown, where a good deal of their work has taken place, these men have found out that by stimulating certain areas of the middle rat brain, they can motivate his behavior. The rat is placed in a box next to a small lever. When it is hit by the lever, it receives the stimulus; it behavior is then tested in the manner the rat responds to the stimuli, either pleasant or otherwise. In this course McGowan is not interested in making new discoveries, but rather in gathering all the data possible for the further development of his study.

Michael Ryan, a junior, under the guidance of Dr. Krasner, is primarily concerned with an analysis of serum proteins in mongoloid patients. He works in conjunction with the Ladd School from which he receives the proteins and intends to enter graduate school upon graduation from Providence College.

Christopher Cimarusti, with Dr. Rerick as his director, is examining the work of the Nobel Prize winner, Dr. Sheen. Dr. Sheen proposed the "synthesis of Intermediates leading to the Antibiotic, Terreic Acid." It is up to Cimarusti to analyze this proposal and see if it is right. Like Paul Adlaf, a junior under Dr. Healy, who is for the first time attempting to synthesize chelate compounds, Cimarusti, looks toward his project as a "stepping stone to success in graduate school. Both he and Mr. Adlaf agree that they are getting a valuable "jump" on other potential graduate students.

John DeFoe, a senior under Dr. Stokes and Dr. Fish, is spending his second year analyzing aspects of the chemistry of Lanisterol and related compounds. His first year was spent with the hydrogen reduction of oximes and he plans to try biochemistry in graduate school. He believes the research he has experienced these past two years "will give him a distinct advantage next year."

Edward Hayes is working with Dr. Krasner on the M protein and procedure for isolating it. They have been performing various experiments on mice, seeing the effect of the protein with and without strept. Hayes plans to go into bacteriology in graduate school and feels that what he is currently doing is "good background for future research."

Other students, their projects and directors are: Robert Rosati who is working on the iodination of Beta-dicarbon compounds under Dr. Rerick; Conrad Lariviere with Dr. Leary on muscle contraction and the influence of radiation; Allan Noonan also with Dr. Leary examining the effects of radiation on insect muscle; Francis Murphy studying under Dr. Kennedy the various organisms that are the carriers of disease-producing viruses; and William Stephen in coordination with Mr. Donahue studying the effects of ultrasound on the growth of the Chlorella.

These students begin doing research on their projects during the summer before their junior and senior years and continue this research in both regular lab periods and whenever they have extra time of their own.
Language... 
(Continued from Page 1)

It is also advantageous since the student is enabled to pick up the language more rapidly through hearing it than through reading it. If an attempt is made to learn a language from the written language alone, there is a tendency for the student to pronounce the words as they would be pronounced in English.

The third advantage stems from the theory that repetition is the best method of learning. By hearing certain words and phrases repeated, the student soon picks up the correct pronunciation. Language includes oral work for his students.

Mr. William Viviani, also of the language department, supplemented Mr. Gousie's statements. He stated that the oral technique has a psychological effect on the student which promotes an interest in the language. "Through constant use, pronunciation is improved. Thus the language capabilities of the student are increased. The presence of a language is the spoken language. The written language is merely a recording of the spoken word. That is not to say that the written language should be discarded. Both are needed for the complete comprehension of a language. However, a good teacher always includes oral work for his students."

He further said that the language capabilities of students has improved in the last few years. This is not due so much to the teaching as it is to the greater selectivity of the administration concerning admissions.

Mr. Gousie concluded, saying that until the proposed language lab becomes a reality, every effort will be made to have students listen to the tapes available. These tapes, as well as language records, are available in the library.

Schick engineering solves the two biggest problems in shaving!

Tough beard?
Schick designs the first electric shaver that shaves really close

Sensitive skin?
Schick makes a completely different shaver that ends razor burn forever

Only Schick makes two different electric shavers... pick the one to match your face!

Both new Super Speed shavers have Schick's exclusive washable head of surgical stainless steel. Snap it off and wash away dirt, stubble, and germs.

Get the new Schick Easy Shave Electric Shoe Shiner for a blacktie shine in 60 seconds!

Traffic Accidents...
(Continued from Page 2)

Mention that traffic allows who weave from lane to lane, speed along "bumper-to-bumper" or jumps the light, this is the ill. Only driver. Operating just within the law, he allows no margin of safety or error for either himself or other drivers—and pedestrians had better beware.

The final advice from our safety experts: drive defensively. The best equipped car cannot prevent collisions; that's the driver's job. And for your family, an extra margin of safety is worth a thousand laments— "if only..."

richards clothes
Jerry De Maria, '64 is available to PC gentlemen on Thursday evening from 6:00 P.M. - 9:00 P.M. and on Saturdays from 9:00 A.M. - 6:00 P.M. Drop in, say hello, and look at the finest clothes ever designed, and priced for the collegian's pocket book.

Tasty Submarine Sandwiches
"Quality Makes the Difference"
1003 Smith Street
On the banks of the
MA 1-8826

Cars Kill...
(Continued from Page 2)

and the files indicate that more deaths occur in the country than in the city. In rural areas, three persons are killed to every one person killed in urban regions.

The highest incidence of motor vehicle deaths occurs between 6:00 p.m. and 8:00 p.m. The fewest accidents take place between 4:00 a.m. and 9:00 a.m. The most dangerous days on the highway are the weekends. Twenty-one percent of fatal accidents have occurred on Saturdays, 18 percent on Sundays, 14 percent on Fridays, 14 percent on Thursdays, and 11 percent on Mondays.

There are four basic factors influencing a driver's susceptibility to accidents. These are exposure, speed, skill and safety mindedness.

Exposure refers to the dangers of external hazards encountered while driving. Hazards include others on the road, poor roads, and poor visibility.

Figures show that spending is a major factor in automobile accidents. Evidence shows that accident potential increases as speed increases. It is claimed that drivers do not have the ability to cope with situations occurring at high speeds. That is, engineers have developed cars that can attain a great speed but have not taken into consideration the capabilities of the average driver.

Safety experts have proposed a general tightening up and uniformity of traffic laws; the enactment of reasonable top speed limits and their strict enforcement; impartial law enforcement; regulation of pedestrian traffic; driver education courses, and finally, greater use of the principles of traffic engineering in the regulation of traffic.

...
On Campus

(Author of "I Was a Teen-age Dwarf," "The Many Loves of Dobie Gillis," etc.)

COMMITTEES:
AN AGONIZING RE-APPRaisal

To those of you who stay out of your student government steadily since the recent death of his pet wart hog who had dirty old floor," said Mr. Sigafoos, sobbing convulsively. (Mr. students union, threatened flatly to quit unless a new doormat is much better off without the wart hog, who tusked him once a jolly outgoing sort, has been crying almost and a waggly tail—but Mr. Sigafoos only turned his back and cried the harder.)

Intramurals ...

(Continued from Page 10)
The Ski Club leads the Intramural Touch Football League as they continue to roll along undefeated. The league's hope for a successful season has been disdained somewhat because of forties and inclement weather. Results of games in the last two weeks:

On Oct. 30, the Kent County Club won the Blackstone Valley Club. The Waterbury Club played the New Bedford Club to a stand-still 13 to 13. On Nov. 6, the Western Mass. Club romped over the New Bedford Club 31 to 6. On Nov. 7, the Ski Club gave the History Club a taste of its devastating power by smashing them into a deejaying heap. In its next game the Ski Club continued on its merry way by whipping a strong Western Mass. Club 19 to 6.

The Intramural Tennis Tournament will terminate on Thursday, Nov. 15, at 2:00 P.M. when Thetracy Lepoutr and Kevin Phelan meet in the finals.

Haskins Rexall Pharmacy
895 Smith Street

"Your Prescription Center"
Two Registered Pharmacists
On Duty
We Deliver
MA 13688 Open Sundays

Campus Barber Shop
3 Barbers

"We Have the Scissors with the College Education"

8 TO 5 MON. THRU FRI.
CLOSED SATURDAY ALL DAY

Andy Corsini, Prop.

You don't need a committee to tell you how good Marlboros are. You just need yourself, a Marlboro, and a set of teacup buds. Buy some Marlboros soon at your favorite tobacco counter.

You can't turn his back and cry the harder.

But I digress. The Student Council met, discussed the doormat for eight or ten hours, and then referred it to a committee. There were some who couldn't stand it, but nothing would ever be heard of the doormat again, but they redeemed without Invietus Milstone.

Invietus Milstone, chairman of the doormat committee, was a man of action—lithe and lean and keen, and, naturally, a smoker of Marlboro Cigarettes. Why do I say "naturally"? Because, dear friends, active men and women must have it to light up they will get the same gratifying flavor, the same pleasant taste, the same satisfaction as a flip top or some other name but this is what the sophisticated is to witness. This characteristic has for the most part been all taken out in the Scotch-Irish Arena. This season the hockey team has 13 lettermen returning, led by Captain Lou Lamoriello. He and Junior lineman Ray Moore accounted for 43 goals and 44 assists last year. Mr. Kiby, John Cannon and Howie La Porte each managed to tug more than his share. On hand is a sophomore contingent which Coach Eccleston feels is his finest at PC. Moreover, Eccleston may find a sleeper or some other name but this is what the spectators pay to see the most part been all to the qualities that the football team put forth last year. They should feed those hoosiers in the east while on other nights they are unable to measure up to the most hapless clubs on the schedule. This has destroyed in many ways any prestige they might gain in the hockey world, and has also chilled any enthusiasm that might be growing amongst an otherwise indifferent student body. The Friars, as they often claim, work under some extreme hardships. They are at the mercy of Rhode Island Aud.

Hockey ...

(Continued from Page 19)

The Friars are picketing to improve on last season's record of 11-9. Hockey Newsletter stated in referring to the hopes of last season's Providence College hockey team. However the best the hoosiers could do was to capture 11 victories while losing 28 games in play which included a first round appearance in the E.C.A. Tournament. Not much of an improvement in any way was it not.

High expectation always associated with a rate of caution is usually the trade mark the hockey forces carry into each new campaign. This outlook more often than not has been necessary. Although the team in many cases has had their just share of talent, there never has been the realizations of a truly fine year. The Friars on occasion rise up to beat the best teams in the East while on other nights they are unable to measure up to the most hapless clubs on the schedule. This has destroyed in many ways any prestige they might gain in the hockey world, and has also chilled any enthusiasm that might be growing amongst an otherwise indifferent student body. The Friars, as they often claim, work under some extreme hardships. They are at the mercy of Rhode Island Aud.

Lack of any type of following may also prove deadly to their team spirit. But, the Friars can show in past play, few performances that would inspire the almost fanatical loyalty PC roundball posses.

What sports fan is not overjoyed by the qualities that the hoosiers displayed in their first three initial N. I. T. appearances. Call it class, moxey, guts or some other name but this is what the Friars are to witness. This characteristic has for the most part been all taken out in the Scotch-Irish Arena.

The Friars could have some weakness at defense, but viewing the picture as a whole the hockey team should do well—at least that is how it appears on paper. But a realistic prediction would find the ice forces pressing to equal last year's record. They should feed those few of us that remain loyal to their cause a steady diet of inconsistency.

Some games they'll likely sink the best team and some games they have to offer. Then one can almost count on a performance against some neophyte, who doesn't belong in the same league, that will make fans shudder in the disbelieve and wonder if this is the same club. The PC's pattern of play could change during the fast approaching campaign. But, this is doubtful—anyone care to dispute this writer?

Austin Snack Shoppe
661 Smith St., Prov., R. I.

NOTES FROM THE SPORTSDESK

The Friars are pointing to improve on last season's record of 11-9. Hockey Newsletter stated in referring to the hopes of last season's Providence College hockey team. However the best the hoosiers could do was to capture 11 victories while losing 28 games in play which included a first round appearance in the E.C.A. Tournament. Not much of an improvement in any way was it not.

High expectation always associated with a rate of caution is usually the trade mark the hockey forces carry into each new campaign. This outlook more often than not has been necessary. Although the team in many cases has had their just share of talent, there never has been the realizations of a truly fine year. The Friars on occasion rise up to beat the best teams in the East while on other nights they are unable to measure up to the most hapless clubs on the schedule. This has destroyed in many ways any prestige they might gain in the hockey world, and has also chilled any enthusiasm that might be growing amongst an otherwise indifferent student body. The Friars, as they often claim, work under some extreme hardships. They are at the mercy of Rhode Island Aud.

Hockey ...

(Continued from Page 19)

scrimmages, and on November 27 there was the annual Americas World Team at Brown University's Meehan Auditorium for one period. After a cross city rival, Brown, plays another period against the U. S. team, an aggregate of both teams will finish off against the national squad.
Freshmen Harriers Capture New Englands

The Freshman Cross Country team with a combination of speed and team balance won the New England Championships Monday. The PC Varsity also accounted for itself placing fourth, a two place improvement over last year.

In the meet held at Franklin Park, in Boston, the Friarlets tallied 100 points beating second place Brown by five. The first frosh to place for PC was Ricieron whose time of 14:11 took second place. Other frosh hill and daleers to place were Franco, Ruggeri, Duggan, and Foster. The team spread for the first five was an incredible 17 seconds. This tremendous balance proved to be the deciding factor for the Friarlets.

The individual winner was Dubinaki of Northeastern. His time of 13:30 was a full 30 seconds improvement over the previous record for this Frosh event.

On the varsity level Hamilton, who placed 17th, was the first Friar to cross the finish line. The next Friar to finish was Stan Biejas in the 29th position. Lavigne, Smith and Harlow also placed for PC.

The varsity, although they finished fourth, showed definite improvement over last year, finishing third honors by only eight points.

Ray Hanlon was pleased with the showing of the Frosh team, especially the frosh who's "team effort" was very impressive.

Based on this year's record, especially Monday's meet, he looks forward to the coming season scoring for both teams in the IC4A. Meet next week. Last year the frosh scored 4th and the varsity 13th.

Both the frosh and varsity won in a dual meet with Central Connecticut State last Tuesday. The varsity won 20-45, and the freshman again tallied a perfect score winning 15-0. Hamilton, coming second, was the first Friar home. He was beaten by Jeff of Central Connecticut. Following him was Stan Biejas, Bill Lavigne, Bill Hill, and Steve Wiesler.

The winning time for the freshman was 14:11 recorded by Fusco on the 4.9 mile course.

Pucksters Continue Their Improvement: Goalie Not Decided

With the first official game four weeks away, the Friarmen are getting down to the final details of their practice. Since everybody on the squad is quite versatile, as to who is going to get the starting assignments, the entire team's spirit and enthusiasm is unbroken, according to Coach E. Eccleston.

Starting with the situation at goal, Eccleston said, "With three goalies, we have to make our choice. Two, Tommy Hanlon, and Rich Mueller, are at the top. The third goalie, who is important, is Ray Kish. He is still a question mark. Presently only Larry Kish is guaranteed of starting. Larry Bogues has been out for two weeks with a knee strain on his thigh and is a week behind the rest of the team. Behind these two veterans, skating for the open position are: Jim McPhillips, Joe Meldon, Joe Sullivan, Chuck Gaffney, Tom Feehan, and Paul DiCarlo.

"Our defense," concluded Eccleston, "is well balanced. Moving back to the half line, we have Larry Bogues, Rich Mueller, and Ray Kish, who is still a question mark. Presently only Larry Kish is guaranteed of starting. Larry Bogues has been out for two weeks with a knee strain on his thigh and is a week behind the rest of the team. Behind these two veterans, skating for the open position are: Jim McPhillips, Joe Meldon, Joe Sullivan, Chuck Gaffney, Tom Feehan, and Paul DiCarlo."

Overall, the coach noted, that the Friarlets spirit and enthusiasm is well, and using their pass patterns on offense. As opposed to the previous year, when the usual, the PC pucksters rely on team play patterns for scoring instead of individual stars.

Prior to the season opener on December 28 against the Boston College, the Friars will face off at Bowdoin College during Thanksgiving.