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# The Stute

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Vol. XLIV No. 24

STEVENS INSTITUTE OF TECHNOLOGY

Friday, May 20, 1966

## Fraternity Men Act Silent; Citizens Have No Complaint

The recently formed Citizens Committee met with Dean Bingham last Tuesday night to discuss the problems that were common to both the residents of the Castle Point Terrace and Stevens. The main complaints that the citizens had were that the students had no regard for the rights and privacy of the private residents.

Specific complaints included the double parking of cars on Castle Point Terrace, the racing of both car and motorcycle engines and general rowdiness of the fraternity men at their wild parties which have overflowed onto the Terrace.

Both the IFC and the Dean's Office have been aware of the problems for some time even though the school has received relatively few "formal complaints" from either the citizens or the local police. The IFC and the Dean's Office have tried various solutions but Dean Bingham indicated that there was no simple clear-cut solution to the problem of parking which is congested on the Stevens campus as well as throughout Hoboken.

The problem about the general rowdiness was a disciplinary problem, and Dean Bingham invited all interested parties to inform his office about any violations of the

residents' rights so that appropriate action could be taken.

John Spazianni, secretary of the IFC at Stevens, made a personal inspection of the fraternity houses both nights of the Spring Sports Week-end which just passed, and he stated that as far as he was concerned, the fraternity men acted in a responsible manner with minimum disturbance to the surrounding neighbors.

With the end of the school term now approaching, there is little likelihood of the situation deteriorating, and the summer will provide the time for all the parties to come up with some logical and workable solution for this perennial problem.

The suggestions made by the IFC concerning the conduct of the students during the week-end made for a positive improvement. The streets were clear of double-parked cars and there appeared to be both local and Campus Security Police patrolling the area. The area was a picture of solemnity and presented an image that both sides are attempting to achieve on a full-time basis.

## Spring Sports A Success; Miss Ruth Haberken Reigns

Last weekend, the Interfraternity Council of Stevens held its big wing-ding of the term, Spring Sports Weekend. The affair, initiated by a formal at the Hotel Commodore in New York City, was a way of releasing tension that fraternity men had been building up for thirteen weeks at Tech.

The highlight of Friday night was the selection of the Spring Sports Queen, Miss Ruth Haberken of Highland Park, N. J. Our blonde, blue-eyed Queen is pinned to Tom Hammell '66, a brother of Beta Theta Pi, and attends Trenton State College where she is a physical education major.

The entertainment for the 550 Greeks and their dates, plus the faculty and administration guests, was provided by Lloyd Price and his Review. The Hustlers, a rock 'n' roll group, proved great for the dance music.

As the evening progressed, various awards were presented for IFC honors achieved during the school year. The All Sports Award was taken by Delta Tau Delta fraternity, while the High Average in Bowling went to Tom Ochab of Sigma Phi Epsilon.

The Sing Contest Award was presented to Beta Theta Pi, with their trio consisting of Tom McManus, Brian Schulman and Bruce Whitehead. Upon accepting the award, the group gave their rendition of "Sail Away."

The other awards presented were for various IFC sports activities held during the term. For Bowling, first place was taken by Phi Sigma Kappa, and second place by the Bates. First place in Squash was given to Pi Lambda Phi, while sec-



RUTH HABERKEN

ond place went to PSK. In the category of Ping-pong, Theta Xi took first place, and Chi Phi second place. IFC keys were presented to men who were active in the IFC. Those receiving the keys were Mike Chadowski, past president of TX; Don Faul, past president of the Deltas; (Continued on Page 4, Col. 3)

## Harold Fee '20 Completes Twenty Years of Service

Harold R. Fee '20, Executive Secretary of the Alumni Association, completed twenty years of service April 1. Fee came to Stevens in 1946 from Ingersoll-Rand Company where he held various positions in the sales and services departments in the New York and Philadelphia offices.

In 1946 the Alumni Offices were located on the first floor in the northwest corner of the Navy Building. Fee recalls at that time that about 13 or 14 companies came to Stevens to interview seniors for job opportunities and that each senior was personally introduced to the interviewer. This is

working for and with so many fine Stevens graduates. Since 1946 over 3800 men have been graduated from the undergraduate course at Stevens. This represents well over one-half of the total present alumni body. (Total count of alumni with known addresses is 6524.)

He looks forward to further service with the Association and will continue his endeavors to improve the services of the Association, which is at the present time suffering somewhat from the lack of complete personnel. The office has been unable to secure someone to replace Mrs. Waid and this work has been distributed between Fee and Mr. Lawrence Minck so that they are unable to devote as much time to many things as they would like to.



HAROLD R. FEE

quite a change from the present operation where the seniors have an opportunity to talk to representatives of some 260 companies and where the total interviews for the placement period of February and March totals over 4500.

During his service of twenty years, Fee says he has enjoyed

## OEO To Offer Summer Jobs

Copies of a booklet describing summer volunteer opportunities for college students in anti-poverty programs of the Office of Economic Opportunity can be obtained in Dean Morgan's office. Volunteers will be most effective within the framework of planned, supervised programs. These booklets will help students channel their desire to serve in programs in which their services are needed and which will afford them meaningful experience this summer.

## D.S. Play, Dance, Movies, Baseball Part Of Annual Alumni Day Preparations

Stevens alumni and their families will gather tomorrow for the annual Alumni Day program. More than 1,500 persons are expected to attend.

The program will include a luncheon, dinner-dance, bowling, movies, carnival midway, baseball game between Stevens and Drexel, and a Stevens Dramatic Society presentation, "The Private Ear" and "The Public Eye."

## Khoda Accepts Five Men Rocco Named New Prexy



New initiates into Khoda include: Vincent Rocco, Chairman of the Honor Board and President of Khoda; John Casteline, President of the Student Council; Robert Kopki, Secretary of the Senior Class; Ralph Bellrose, President of the Interfraternity Council; and Geoffrey Reiner, President of the Senior Class. All members are entering their senior year.

### Davis Will Speak

Speakers at the luncheon will include President Jess H. Davis and Kenneth A. Southworth, Jr., president of the Alumni Association. Charles Schnabolk, Sea Bright, will be master of ceremonies. The presidents of the various Stevens clubs and their wives will be guests of honor.

During the morning the Class of 1921 will make a cruise of New York harbor aboard the tug "Anthony J. McAllister," which is named for Mr. McAllister, president of the class and chairman of the board of McAllister Brothers. This evening, the Class of 1921 will hold its reunion dinner at Stevens Center.

At a reception tomorrow, the Class of 1956 will present the institute with a contribution of \$1000 to be used for study areas in the proposed new Stevens library.

# The Stute

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Associate Editors

FRIDAY, MAY 20, 1966

## Big Headlines Increase Circulation

THE STUTE, as a responsible news media, would like to ask the Jersey Journal, another news media, why a relatively insignificant STUTE news filler would, two weeks later, be exploded into a three-column, front page, Jersey Journal banner headline.

Stevens deserves publicity, but certainly not this malicious, circulation-building, emotional trivia presented recently.

Concerning the fraternities' recent problems with nearby residents, the Jersey lost little time in highlighting every minor detail which put Stevens in a bad light.

Unfortunately, they ignored some essential facts.

1. They ignored the fact that the Stevens Interfraternity Council had voluntarily placed a moratorium on Friday night parties.

2. They also ignored the fact that the reason for this moratorium was to prevent more incidents involving Hoboken juveniles who tried to crash parties and who also tried to provoke the Stevens man.

3. Just recently, they ignored the fact that "NOT ONE VALID FORMAL COMPLAINT was lodged" during the fraternities' largest social weekend, Spring Sports.

4. And in their usual form, they ignored the reason: the IFC united responsibly and policed themselves.

In summing up, THE STUTE suggests to the Jersey Journal editors that they start to follow good journalistic standards by:

1. Printing all the news.
2. Reporting this news when it happens, and displaying it in proportion to its news value.

## The Goals of the Student Council

The major goal of the Student Council is to provide as much as possible for as many as possible. The financial power of the council is the tool by which they can give to the undergraduate body as a whole, at greater volume and at less cost, more than the students can get individually.

THE STUTE thinks it is about time that the Council recognized this goal above all others. The financial crisis caused by the "concert blunders" has allowed the observer a clear perspective of the past council's blunders. They simply have failed to support those organizations and those activities which contribute the most good to the largest number

Three cases in point:

1. The Council, in supporting the last concert, shelled out over \$3,100 and received only \$440 from ticket sales. This amounts to a loss of some \$2,660. Less than 170 Stevens men purchased tickets for the concert. Compared to over 1,100 undergraduates, it would seem that the average Stuteman doesn't want concerts. But the really stunning fact is that this was the THIRD concert of the year, the other two boasting "similar records of poor attendance and financial losses," according to the Chairman of the Student Council Entertainment Committee.

The question: Why did the Council continue to tax the student for activities that the student doesn't want and doesn't attend?

2. Events, the humor magazine, received an allotment of only \$312. This amount less than their deficit from last term. In fact, Events was published this term WITHOUT the Student Council's financial help. Yet, over 830 Events were sold — yes, sold — last term to undergrads. Question: If the student wants Events — wants it enough to pay for it — why did the Student Council fail to support it?

3. The Glee Club, dissatisfied with the Student Council and their philosophy of budget allotments, asked for, and received, permission to extricate itself completely from the Council's financial system and fend for itself.

Recent action by the "new" Council indicates that they realize the shortcomings of the previous Council. Where the "old" Council was concerned with providing activities for the few rather than for the many, the "new" Council has already torn itself from the old ways.

For one, according to the Council's new theory, if concerts are to remain on the calendar, they will be held during an IFC weekend when attendance will be substantial. Added to this, the affair would be held on the Saturday afternoon of the weekend, thereby not only allowing a large price reduction in the cost of the concert but also filling in the gap of an open afternoon.

For another, the Council this week allotted THE STUTE another \$1,100 — thereby re-emphasizing their great concern with the benefit of the many.

THE STUTE is confident that this "new" Student Council will continue in this same manner. Above all, it should remember that to be successful, a Council must serve the entire school, not just 15% of it.

## The Final Period of Club Football?

The idea of a Football Club stormed Stevens, but its prospects of existence decreased daily. Today, the Football Club is a dead issue, not so much because it is a bad idea but because responsible leaders and organizations throughout the college, on all levels, allowed it to slide downward to its present state.

In particular, Khoda, Gear and Triangle, and the Athletic Association and their leaders, by their own admission, completely ignored the issues. The Student Council felt it sufficient to agree that Club Football was basically a sound idea — and leave it at that. It may be pointed out that THE STUTE did not print sufficient material on the Football Club, but the reason for this is that THE STUTE only prints the news, it does not make it up.

As of now, Club Football at Stevens is dead. Too bad. But next year, perhaps the whole campus won't ignore them again. At least, THE STUTE hopes not.

## Pi Delta Epsilon Initiates; Three Accept Honors



New Pi Delt initiates are, left to right, Joe Francis '67, Ian Rudnikoff '67 (seated), Mel Thor '68. Joe is Associate Editor of THE STUTE and Editor of the Senior Booklet. Ian is News Editor of THE STUTE while Mel is Copy Editor besides being Editor of both the Freshman Handbook and Events. Joe and Ian are brothers in Beta Theta Pi. Mel is a brother in Chi Phi.

### News Briefs

The IFC Championship Baseball Game will be held Sunday afternoon at 2:30 on the athletic field. The close competition in both leagues makes the two contestants unknown.

This marks the sixtieth year of continuous operation for the Honor System here at Stevens. The system is as strong if not stronger than when it first came into being. It is one of the few traditions that have survived the times.

All campus organizations that want to be included in next year's Freshman Handbook must return the forms they received by next Friday.

All undergraduates who are on financial aid (scholarship or loan), may be eligible for on-campus summer jobs under the college work-study program. Jobs are varied and will be filled on the basis of your past experience. All those interested, please stop by to see Mrs. Hughes on the 10th floor in the Stevens Center.

The Gear and Triangle Society held its tapping over the Spring Sports Week-end. Those tapped were Robert Atkin '67, Jeff Cerney '67 and John Spaziani '67.

### Letters

To the Editor:

We would like to take this opportunity to thank our local contingent of the AFROTC for honoring us with a brilliant display of precision military drilling last week. These fine specimens of American youth paraded up and down the area beneath our window with bugles blaring and drums pounding at the glorious hour of 7:30 A.M. This display was particularly welcome, as we had a P-Chem quiz later that morning and we didn't really want to sleep anyway.

As fine as this performance was, however, we do have a few suggestions for improvement:

1. The bugler(s) should either be replaced with someone who is capable of playing the instrument or should adopt a more appropriate instrument, such as the bagpipes, to accompany the marchers with.
2. The whole damned show should be rescheduled for an hour when most of the NORMAL people are not asleep.

Signed,

G. Minkel '67

J. Spaanderman '67

### Mutterings . . .

by S.I.J.

Even though Stevens was first in advancing many academic endeavors — first to offer courses in the economic aspects of engineering, first to award the Mechanical Engineering Degree, first to establish a Humanities Department in a technical school — it is today lagging far behind other colleges in at least one particular modernization.

Yes, Stevens remains the all-men's college just as it was founded almost a century ago, while other seats of higher learning once open solely to men are now benefiting from the presence of co-eds.

One hundred girls will enter St. Peter's College of Jersey City, breaking the male barrier that has existed at that college since it was established in 1872, two years after Stevens.

And a pretty Oregon high school senior narrowly lost her bid to become the first girl to be appointed to West Point — as another Oregon prepster of the male sex was chosen over her.

Meanwhile, rumors have it that females attend Newark College of Engineering as well as MIT.

Contemplate, fellow Stutemen, what educational opportunities are being held back from us.

Likewise, contemplate the consequences of being married to a fellow engineer.

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# Final Appraisal Made of the Past School Year; May Be Called 'Time of Transition' At Stevens

by Pete Murphy '68

May is sometimes described as the month when spring reaches its peak and spills into lazy summer days. Yet on the Stevens campus thoughts of spring, summer, and nearly everything else have been put away and resistant minds have begun to prepare for final exams. Even in the midst of harried preparation, thoughts do wander and the events of the past year, now rapidly approaching its climactic ending, rush back.

The past year was definitely a year of what could be called innovation on the Stevens campus. The Freshman class set the trend that was to prevail throughout the year during the Freshman games when they went down to glorious defeat at the hands of the Sophs, the first such defeat in twenty-five years. Although the contest went a full three events, the Frosh, even with the unofficial aid of some Senior classmen, could not overcome the strength of the mighty Sophs. In an effort to atone for their humiliating defeat, the Frosh kidnapped the Sophomore class president, but insult was added to injury when he flew back, beating his captors.

Later in the year, the Frosh ambitions were turned toward more constructive projects when they spearheaded a drive for club football on the Stevens campus. The majority of the student body demonstrated their support of a club through petitions and one was allowed to organize. Although the club has fought off attacks by the gym department and the administration, it has survived and formed a tentative schedule of games to be played next year. A coach has been acquired and the club is now raising money for equipment through student subscription.

IFC activities on campus this past year were easily some of the most ambitious ones at Stevens. The change in the rushing system which was introduced at the be-

ginning of the year allowed fraternity men to have contact with freshmen throughout the entire first term. The system also provided for a series of smokers in order that the frosh could become acquainted with the fraternities before the second term rush. A requirement that each freshman must attend five smokers at five different fraternities forced the frosh to become familiar with more than one house. For the first time the frosh were well acquainted with the fraternity

seventy-three Stevens men, fully adorned with banners and slogans, were bussed to the New York City Red Cross Blood Bank. The "demonstration" was so novel that it attracted local television and newspaper reporters who interviewed the students as to their reasons why they were giving blood. The drive was so successful that the IFC received a commendation from the local chapter of the Veterans of Foreign Wars.

In an attempt to better the image

provide their services were excellent. The success of the dance caused the IFC to immediately make plans to hold another benefit dance this fall.

Even though the community activities were so successful, the IFC did have its share of trouble this year. The Friday night parties became infested with "crashers" from Hoboken and surrounding cities. Noise and "rowdyism" developed and this was blamed on the IFC by a local citizens' committee.

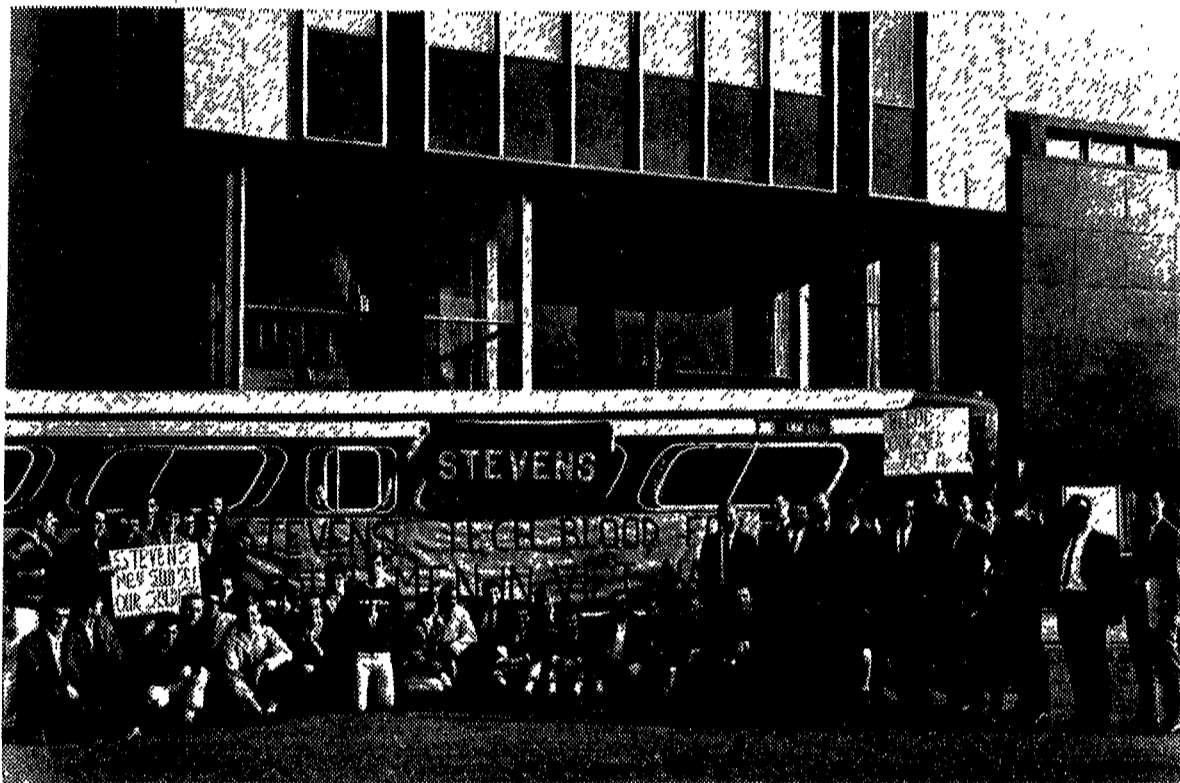
frey Cambridge and the Women-folk, Herbie Mann, and the Mitchell Trio provided entertainment for a large number of Stute-men and their dates. The committee, acting on a policy which had been recommended a few years ago, also announced that beginning next year the student body will be taxed in order to provide better concerts and a new lecture series at lower prices.

One of the highlights of this year was a visit to the Stevens campus by Associate Supreme Court Justice Tom Clark. Justice Clark spoke to 600 students on the "Responsibility of Freedom." Justice Clark was invited to Stevens by the Interfraternity Council and the school administration. Hope was expressed that speakers similar to Justice Clark would also be invited to the campus in an organized lecture series.

The new curriculum changes that were instituted partially in the second term of this year and which will be fully activated next year, were a subject of considerable conversation on campus this year. The new curriculum allows for more freedom in the selection of courses and for the first time Stevens students will be allowed partial specialization while still undergraduates.

This year was saddened by the retirement of two of our best known professors. Professor Fife, Chairman of the Humanities Department, retired after serving nearly 40 years; and Professor Weil, Chairman of the Mechanical Engineering Department, retired after serving nine years. Undoubtedly, Stevens will be sorry to see these two men leave.

Of course, these are not the only events at Stevens this past year. There were many others, but now exams, summertime, and many other things will cause all these memories to pass.



TECHMEN IN SUPPORT OF "OUR MEN IN VIET NAM"

system before the infamous two week rush and were allowed the opportunity to make up their minds while still sober.

In response to the demonstrations against the Viet Nam war at so many colleges and universities, the IFC organized a blood drive to publicize their support of our armed forces. One hundred and

of fraternities, the IFC decided to run a dance for the benefit of the Hudson County Heart Association. The dance was a complete success, which over 700 people attended and approximately \$1,300 was raised for the association. Girls were bussed to Stevens from schools as far away as Georgian Court and, although the big-name entertainment that had been promised did not materialize, the bands that did

Even though these accusations were unfair, the IFC demonstrated its willingness to cooperate and is now working with this citizens' group in an attempt to improve the situation.

This year the Student Council Concert Committee, under active leadership, increased the number of concerts from two to three. God-

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Freshmen on their way to immortality, as they succeed in breaking the Frosh 25-year winning streak.

## The Happiness

The Happiness, the first and only Hong Kong style discotheque in the world, opened last week at Broadway and 94th Street. The Happiness features Eurasian dancers and waitresses wearing Hong Kong style slit-up-the-side dresses, an international library of Big Beat records, the latest in sound equipment and a fine Chinese supper menu. Featured at this exotic discotheque are three shapely dancers who gyrate on raised fan-shaped stages with ultraviolet lights producing a special "Black Light" luminous effect spotlighting them.

The Happiness is hosted by Benny Baron, well-known as a comedian in the borscht circuit and around the metropolitan area. Mindy Pitt, his wife, who has been a dancer in many Broadway shows, including "Li'l Abner," serves as the club's dance director. Music starts nightly at 9 p.m. until closing on every night except Monday.

The other highly pictorial features of The Happiness are a huge Dong Kingman mural depicting a mammoth Chinese junk gliding under the Brooklyn Bridge, and the myriad lights from some sixty-odd Chinese lanterns. An elaborate system of dimmer switches is used to match the atmosphere to the music, which is exclusively on records.

-Advertisement



"DAT'S RIGHT, MISTAH! I'M 18!"

# Research Carried On By Two Departments

## Chemistry Department Actively Engaged In Research Work in Field of Organics

## MS Department Concerned With Resource Allocation

A small but active group of men here at Stevens is doing considerable research work in the rapidly expanding field of organic chemistry. Some of the work is in the areas of biochemistry and biosynthesis.

Much of the program being followed is in search of new drugs and treatments for disease. This research is being supported by the National Institute of Health. An example of this is the work being done by Drs. Ajay K. Bose and Magyar S. Manhas on the synthesis of compounds similar to the antibiotics. Penicillin and Cephalosporin-C. It is hoped that the compounds produced in this way will be biologically active, that is, will be useful as drugs. Dr. Bose is also working under a Cancer Institute grant in an attempt to synthesize certain compounds containing fluorine which it is hoped will have anti-tumor activity.

Dr. J. Van der Veen, also under a grant from the National Institute of Health, is working in a branch of biochemistry. He is studying enzymes, which can be likened to organic catalysts. An interesting point of Dr. Van der Veen's work is that he is making use of certain elements, the transition metals, not normally associated with organic compounds. This stresses an aspect of organic research; the researchers do not confine themselves to the classical methods of organic chemistry, but make use of the highly sophisticated methods of the physical chemist and the inorganic chemist also.

Many of the researchers, in particular, Dr. Edmund R. Malimowski, are making use of Nuclear Magnetic Resonance (NMR) techniques. This involves an instrument which subjects a sample placed in a strong magnetic field to microwave radiation. By determining the frequency at which energy is absorbed and the amount of energy absorbed it is possible to determine the structure of a compound.

This technique, an outgrowth of studies in physical chemistry and atomic structures enables an organic chemist to determine the structure of a compound without having to perform a laborious chemical analysis on it. This is especially useful when the researcher has only a very limited amount of the compound available to him, since NMR is a non-destructive technique.

Another tool of the physical chemist used by organic research-

ers is the mass spectrometer. This device is used primarily to determine the molecular weights of compounds. Dr. Bose is employing this instrument in his work on biosynthesis. Biosynthesis is the study of how nature produces literally millions of products commonly found in living things and as by-products of life. The scientists then use the knowledge they gain from this study to produce useful compounds.

In this type of work, "tagging" is usually done with atoms of radioactive carbon-14. Dr. Bose, however, is making use of non-radioactive heavy isotopes, such as carbon-13, as tags, and then analyzing the compounds in the mass spectrometer to detect the presence of the heavy isotope.

done by Stevens researchers, has given Stevens a world-wide reputation. Many industries in the local area come to Stevens with their research problems. Stevens researchers have also collaborated with scientists in other countries, such as New Zealand and Czechoslovakia.

But research does not only involve men, machines, and laboratories. The most important part is ideas. The chemistry department has received a grant from the Merck Co. and matching funds from Stevens which are being used for a program of visiting scientists to familiarize the Stevens researchers with the work of other scientists. So far, Dr. S. Oae of Osaka, Japan, and Dr. R. J. Suhadolnik of the Albert Einstein Medi-



Nuclear Magnetic Resonance (NMR) is one of the modern tools used by organic chemists doing research here at Stevens.

Dr. Manhas is also making use of the mass spectrometer in his research on organic compounds, while Dr. P. T. Funko, a physical chemist, is studying the molecular rearrangements of organic compounds that take place in the mass spectrometer.

These instruments are not used by researchers at Stevens alone. The quality of the equipment and the availability of the time on them, coupled with the work being

cal Center, Philadelphia, have lectured at Stevens. It is hoped that this program will be continued into next year.

Research in organic chemistry at Stevens, then, combines classical organic research with the modern tools of the physical chemist in an attempt to increase man's knowledge and make his life a little better.

### Spring Sports

(Cont. from Page 1, Col. 5)

Rich Gill, past president of Chi Phi; Don Moor, past president of the Bates, and Bob Marion, past chairman of the IFC.

After a memorable four hours at The Commodore, most of the Greeks and their dates took in the athletic events on campus, including a lacrosse match with RPI, a baseball game with NCE, and a tennis match with Seton Hall. Though the lacrosse team was defeated, the Greeks did see victories in the baseball and tennis events.

The rest of the week-end was devoted primarily to house functions, with all the houses having theme parties on Saturday night, and picnics, boating parties, beach parties, and other outdoor activities on Sunday.

And, of course, the Week-end would not have been complete without the traditional burning of Charlie Calculus on Davis Field. For those who didn't attend, may this show them what they have missed. But for those who did, may they pensively lean back and say, "What a week-end!"

Two or three years ago, mainly in the interest of gaining potential for a Ph.D. program, Dr. Arthur Lesser, Jr., and the staff of the Management Science Department decided to organize a research program. The first questions that had to be answered were where sources of financial aid could be found and in which direction the research work should move. Industry could not be depended on for complete backing for it favored consulting services over actual research.

However, industry was willing to let research groups use its plants as laboratories for gathering data. The government and academic institutions were the only alternatives left and this is where in fact the funds for research in Management Science are coming from. The general field of research chosen by the department was resource allocation and reallocation. The diversity of this field is in the word "resource." It can mean, for example, manpower, production machines, materials, or production processes.

One of the earliest projects was started last June by Prof. Allen Spinner and Carl Hoff, graduate research assistant. The official title of their research is "Scheduling Control in Semi-Continuous (Batch) Production Processes." This project is in conjunction with Richard F. Dede '34, Executive Vice-President of the New Jersey Machine Corporation, a manufacturer of high-speed packing machinery.

Spinner and Hoff's work is centered around the general problem of scheduling production in a job shop, that is, a shop which has short and varied production jobs as opposed to a shop which is set up for long production assignments.

They will eventually use computer simulation in their work. This ties in directly with the theme of research in the department in that it involves the allocation of production machines and processes. This project is supported by funds from the Stevens Research Funds awarded by the Academic Research Committee, Howard E. Orem, chairman.

In connection with the research on scheduling job shop production, Lesser and Spinner plan a two-day symposium for February 1967 on sequencing operations in a job shop. This is the first symposium to be held centering around this subject although there have been scattered papers written about it.

The purpose of the meeting is to evaluate past work, interest people in the field, exchange ideas, and look at directions research might go.

Dick Curtis, a graduate student in the department, is in the process of making a literature search and an annotated bibliography of all literature in this field, to be published at the meeting.

The symposium is supported by the Office of Naval Research. It coincides with the 50th anniversary of the perfection of the Gantt chart (Henry L. Gantt '34). This chart (the first of its kind) takes two variables into effect in scheduling production; item or facility and time. It is valuable because of its ability to show quickly and clearly the relationships among several variables.

As a follow-up to the sequencing symposium, Spinner is preparing a proposal for the Office of Naval Research on another allocation problem: priorities. There is even less work done in this field than in sequencing. The problem of priorities arises when it is necessary to

determine the relative importance of various job shop assignments. The research is aimed toward building mathematical models based on timing considerations and the urgency of each unit in respect to the whole project.

Dr. John Ballantine of the Management Science Department and Dr. J. Myron Johnson of the Laboratory of Psychological Studies have prepared a proposal for the Department of Labor on some problems of allocation and reallocation of manpower. The Labor Department gives three-year grants to a limited number of small institutions to set up education and do research in the field of manpower research. The proposal is aimed at developing planning techniques for the reassignment of already employed manpower, modifying selection methods, and indicating potential training needs.

It also calls for setting up a training program for education in research in manpower resources. This, of course, means that research itself will have to be done in order for the education to be worth-while. In problems such as this, where manpower allocation is involved, the Management Science Department and the Laboratory of Psychological Studies will be necessarily working together.

Prof. Frederick Cleveland is making a proposal to the National Science Foundation on the computer simulation of a business firm. The computer would be programmed as a model of a business firm with research, engineering, manufacturing, and selling departments. The programming would be an abstract of the real business world in mathematics and logic and would be set up to show profit-loss data after different management decisions had been made.

As a teaching device it would enable students to determine the probable effects of certain decisions they made to solve hypothetical problems set up in the model. The program could also be designed to represent a particular company and could help in forecasting the results of management decisions.

The economics and dynamics of multiple water use by industry in the Hackensack and Passaic river basins is one problem confronting the Water Resources Institute, the state's control agency for coordinating planning and research in water resources, directed by General William Whipple, Jr.

These rivers, looked upon as systems, have had almost no research done on them because water in this area has never been as scarce as it is now. The first step in solving this problem is to find ways of measuring and rating contamination. (A survey of all industries using water from the rivers must also be made. The Management Science Department at Stevens will be doing the groundwork here, but water quality tests will be handled at Rutgers.)

The next phase is the building of a computer simulation of the river systems based on the surveys already mentioned. From this simulation the probable effects of changing certain variable conditions along the river can be predicted. This will allow the Water Resources Institute to make plans for more efficient use of this natural resource.

BROADWAY at 53rd



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# Spotlight Falls on Charles Grady III Well Pleased With Life At Stevens

Would you believe that Charles Benedict Grady III is the third member of his family to graduate from Stevens?

Born 49 days after D-Day (July 25, 1944) in Orange, N. J., little did he know at that time that he was destined to follow his grandfather, Charles B. Grady, and his father, Charles B. Grady, Jr., by becoming a member of the Stevens family. The elder Grady was a member of the Class of 1897, while Charlie's father took his sheepskin in 1943.

Reflecting on his four years at Stevens, Charlie said, "In my opinion I have received a good basic education at Tech; I have been acquainted with many things and I have the basic tools from which to go further. I think I know how to learn quickly if I have to and how to find information and approach research problems. The fact remains, the more you learn, the more you realize how little you know. Many new horizons have been opened by Tech.

"I'm glad I went to Tech because of its small size, like a big fish in a small pond."



CHARLES B. GRADY III

When asked if he could suggest any improvements for Stevens, he immediately commented, "Any school has room for improvement. My biggest gripe today is that Tech is not known by the general public, or even men in other colleges. I've been to various conventions and have met many people and I believe I can count on my hands the number of people who had heard of Stevens.

"I know Stevens is respected in professional circles, but the point is the overwhelming majority of scientific-engineering bound high school students do not know this school exists and as a result do not even consider applying here. We have seen what has happened. While President Davis wants to increase the undergraduate enrollment, it has actually decreased. Also, it is true that many were marginal, to say the least. This, in part, is why the dropout rate is so high."

The next obvious question was his proposed solution. The reply was, "What can we do? The Public Relations Dep't should be improved. In the last few years, admissions people and others have been visiting more high schools. More of this is needed. Also, we need to form more alumni clubs and those clubs should take a more active part in the admissions procedure. If Tech doesn't become more widely known, it could wither!"

Charlie earned the illumination of the Spotlight because of his active part in SIT activities and outspoken opinions. In addition to participating in all the Stevens publications, he is a member of the WSRN staff, the Christian Fellow-

## The Ream Is Here



According to the latest tabulations on our instant tote machine, Rudabaker is in the lead for the ream contest. Last year's winner, and we mean winner, Colonel Bingham, seems to have lost the student admiration to Dean Ruda-

baker. But all is not over yet. The frosh have a strong contender in Myron White, the darling of the Computer set. Also still hopeful are Clough, Sherman, and Crisman. Don't forget to cast your vote for your favorite.

## Chess Team Third in Area Makes Plans For Next Year

The Stevens Chess Team concluded this season's play by finishing third in the recently held Metropolitan College Open. The tournament, which hosted the strongest college teams within a radius of 300 miles, was won by MIT with 14

points while the strong Penn State team nosed out Stevens for second place by scoring 12 points to Stevens 11. Stevens placed ahead of power-houses such as City College and Lehigh and was far ahead of Pace College and City Downtown, both of which defeated Stevens in matches last fall.

Raymond Heitmann starred for the Stevens team, scoring 4 out of possible 6 points. Ray finished 7th

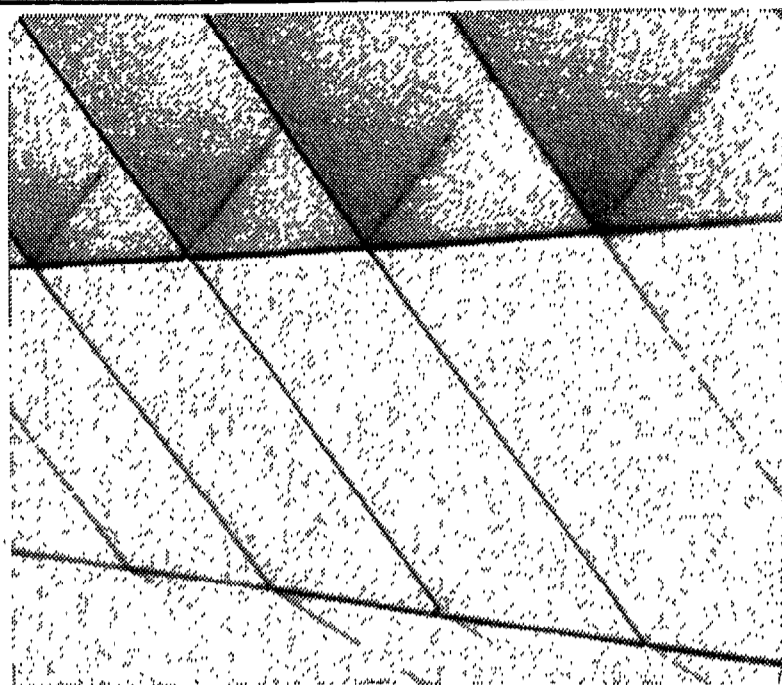
ship, the Chess Club, and the ACS. His college honors include membership to the Arnold Air Society, Gear and Triangle, Pi Delta Epsilon, the Dean's List, and the Activities Honors List.

Charlie is definitely not a man without a future. Upon graduation, he will receive a Second Lieutenant's commission in the United States Air Force. Immediately following this, he will take a three-month vacation in Pennsylvania, and is expected to be called to active duty for four years in September. He hopes to be able to do physical chemistry research in the Office of Aerospace Research. Part-time graduate work is apparent as soon as he finds out what he'll need to know. He claims that if he likes the Air Force, he'll make a 20-year career of it, hopefully to finance his doctorate. If he quits after four years, he will do research in industry.

As a final comment, Charlie said, "I believe for satisfaction in life a man has to contribute at least something that will in some way help his fellowman. I also believe that things happen for the best, no matter how bad they seem at the moment.

"We always should make the most of what we have. Too many times, people defeat themselves by having the attitude that they are going to fail. They look at the dark side of things too much and are defeated before they start. Self-confidence is half the battle. If you don't believe in yourself, who else will?"

## What And Where ?



Due to unforeseen circumstances, the What and Where Contest was not published in the last STUTE, but will resume in full strength in this issue.

Of the 27 solutions received for the last picture, only one was incorrect. It seems like the Techmen are becoming more observant every day because the most difficult task nowadays is choosing the winner.

From the various people who submitted answers, including Mr. Crabtree and Dean Rademacher, the combined efforts of Bob Gam-

per and Larry Kaufman won out over all, with their guess of the empty light fixture on the north side of Mr. Crabtree's house. Well, better luck next time, Mr. Crabtree and Dean Rademacher.

The prize is the same as last weeks, \$2.50 worth of supplies from the Bookstore.

Once again! Please submit your answers on 3" x 5" file cards, or the like, by Tuesday, May 24, 1966 to Box No. 341. All entries not following the rules will be disqualified.

## Scene Across The River

by T.P. Smirnoff '67

The Lion in Winter (Ambassador Theater)

The reign of Henry II of England, called the first of the Plantagenets, has all the elements of an epic novel, all the romance, color, conflicts and guile of the Arthurian legends, which man began to write at this time." So said Thomas Costain, in his popular history of the Plantagenets, The Conquering Family. This epic novel, rather only a part of it, has been brought to the Broadway stage,

Historically, Henry II was a man of main traits, some good, some bad. He dreamed of a great English empire as extensive as that which Charlemagne had ruled, and he almost succeeded. He married the most glamorous and beautiful woman in Europe. Elenor of Aquitaine, after having first dispatched with her husband, Louis of France. His sons included Richard of the Lion Heart, Prince John (both of Robin Hood fame) and Prince Geoffrey. With this background, the play opens in the royal castle at Chinor, France, for the convening of the Christmas court.

The family is assembled at the palace: Elenor, John, Geoffrey, and, most importantly, Richard, who, fresh from the wars and exile in England, has only one thought in his mind—the capturing from Henry of the three "prizes": the Crown of England, the lands of Aquitaine, and the winning of the fair Alais, Princess of France, who, although betrothed to Richard, is the mistress of Henry.

The successor to the crown was an open question, since in Henry's time the law of primogeniture did not exist. Thus, with Henry's death, the crown would be up for grabs.

The conservator of the English empire and of the Plantagenet rule was of utmost importance to Henry, but to few others. The plotting, and scheming of these five people is beyond belief. Deal upon deal, treachery upon

treachery, is committed. Elenor favors Richard (who wins in the end by his father's decision). John, the youngest son, plays on his father's fondness for him, while Geoffrey plays the go-between and advisor to all with no hope for himself as king.

It is obvious that Henry is not willing to part with anything while he is alive—neither land nor mistress.

The three hours of the play is truly an amazing exposition of people's selfish and sometimes cruel behavior out of greed and love.

Robert Preston, of Music Man fame, plays the energetic and forceful king with true grandeur. His interpretation of Henry, with its great depth of human emotion, shows his great ability as a serious dramatic actor. His portrayal deserves much praise as well as a chance that his acting ability is finally fully recognized and will be made greater use of in the future.

Rosemary Harris, as Elenor of Aquitaine, does a most convincing job in her portrayal of this complex character. Her ability to present, with true regard for grace, the devious and plotting undertones of this most remarkable woman is seen to such a degree of excellence in few other actresses of our time. Miss Harris' gift of ease of presentation and dramatic spirit lends itself to a very successful portrayal of Elenor.

Alais, played by Suzzan Grossmann, adds a soft and most feminine touch to the play, which is in great contrast to the striking Queen Elenor.

Truly a delightful way to learn some history without really trying, this play gives us a taste of the times and people that shaped Europe into the greatest power the world had then known. Lion in Winter is truly deserving of the high acclaim it has received, with perhaps the greatest credit going to its two powerful and talented stars, Robert Preston and Rosemary Harris.

### SUMMER CAMPUS REPRESENTATIVES

If you are an outgoing person with broad campus contacts, you may be eligible to earn several hundred dollars during your free hours this summer as a college rep for a unique computer-dating service. Write full particulars, including your summer address, to: College Manager, Room 1112, 381 Park Avenue South, N.Y.C. 10010

## Tech Baseball Team Wins Over NCE 2-1 But Stevens Sluggers Bow to Pace 6-5

An enthusiastic crowd of Stevens men and their dates cheered the varsity baseball team to a 9-hit, 2-1 victory over NCE last Saturday, adding to the glee of the Spring Sports festivities.

Pitcher John Parisi, '67, who allowed only one hit, picked up his first victory against one loss. Jim Harris scored the first run for the Stutemen, as he was driven in on a single by first baseman Jeff Anderson.

In the eighth inning, Walt Doyle singled to drive home outfielder John Szot for the game-winning run.

Despite a three-run rally in the ninth inning, the Tech sluggers succumbed to a strong Pace team last Wednesday, as they were defeated on enemy territory by a score of 6-5. Starting pitcher Roy Johannsen '68 received the loss.

John Szot doubled to start the rally, only to be topped by Jeff Anderson's triple, bringing Szot home. Then, after relief pitcher Ron Slember walked, Walt Doyle slammed another triple to drive both men in. Unfortunately, he was left stranded there as the inning ended.

Three runs on errors opened the scoring for Pace early in the first inning. A double by Jack Tyrrell '68 drove in Szot to begin the Red and Grey attack in the second.

Ron Slember and outfielder Bob Sargent '66 both singled to open

the sixth. An error by Pace's second baseman put Ralph Bellrose '67 on base and allowed Slember to score the second run.

Although the Techmen outhit the enemy 7-4, several costly errors were responsible for the loss. Pitcher Ron "Yogi" Slember '68 did an excellent relief job, although he was quite unpredictable throughout the game. While walking eight batters, he retired ten on strikeouts.

Tomorrow the Stutemen will meet Drexel here for the final game of the season.

## Mark Goldberg Sportsman of the Month Tennis Ace Led Team With 7-1 Record

The final Sportsman of the Month this year is Mark Goldberg, Tech's number one tennis man.

Goldberg, known as "Peaches" by his fans, has really just come into his own this year. Two years ago he played number two singles on the freshman team, right behind Phil Dore. Last season saw Dore and Goldberg gain the same one and two positions on a green varsity squad.

This season, however, after dropping the Stevens Tennis Tournament to Dore last November while very ill, he has come into top form, with marvelous control on every shot.

He explains his 7-1 season record by saying he gets everyone to play "his game."

"His game" means keeping all his shots far back, where opponents have a hard time getting set for a "put away" shot. Most of Goldberg's shots and even his serves are to the backhand, where most opponents can only return a weak defensive shot that is easy to score

upon.

According to Mark, Coach Partel should get all the credit for his game, which features a backhand almost as strong as his forehand. Partel showed him how to bring the backhand around in one smooth sweep with the arm, rather than employing the last instant flick of the wrist that most players use.

Never an overpowering type server, Goldberg has been handicapped this year by bone chips in his elbow. They hurt him particularly in the loss he suffered against Upsala's ace, who has been state champion.

Goldberg, who only started playing tennis steadily in his junior year in high school, improved enough to play number one as a

senior for Bayonne H. S.

With that experience and plenty of Partel's time, Goldberg has matured into an unorthodox but very effective player. No one, including the Sporting Comment, thought Goldberg or the tennis team would do well this year, but the team has a 5-2 record and Mark a 7-1.

While he was always rather secretive about how he thought he'd do, "Peaches" was quite outspoken about how well the team would do, and perhaps it was this confidence that led his teammates to select him co-captain of next year's squad; at any rate, he should lead a much stronger, more experienced team through a very successful season next spring, with chances good for him going undefeated.

## Interclass

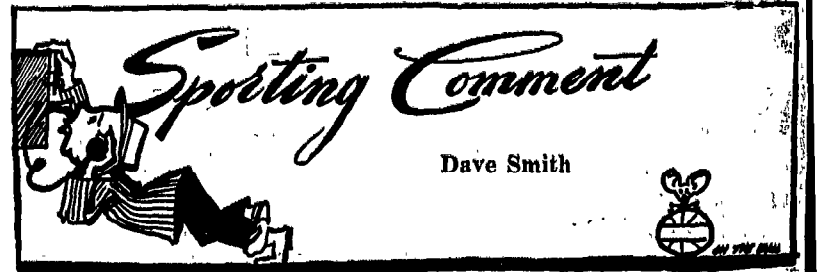
by Bob Kopki

Last Wednesday saw the close of this year's interclass season with the annual track meet. The Class of '69, which had not won any major events up to this time, came through in fine form to finish the season right. Led by Manager Bob Benazzi, they took first in every event and beat their closest opponent by 35 points. Particularly fine performances were turned in by Cardinal Warde in the 100 yard dash with a timing of 9.9 and Ron Hills, who had a 5'7" high jump.

In other activities this season, the Juniors won two play-off series victories, 19-7 over the seniors and 5-4 over the Sophs to capture the softball title. The Class of '67 also swept their disinterested opposition to take handball while the Sophs edged out close victories over the Frosh in both bowling and the gym meet. Participation in all sports was on a particularly high level this season, especially in softball and bowling.

Interclass numerals will be distributed to the winners at the end of the week of the twenty-third. If you were on a winning team, see your A.A. rep and pick them up.

This STUTE is a gift to the general student body from the benevolent Student Council.



Dave Smith

It's that time of year again . . . the time when the only sensible thing to do is sum up this year's sports on Castle Point.

This can be a little painful, particularly when one considers the beginning of the year and soccer season. Stevens hasn't exactly been a major soccer power in recent years, but this season was a corker. It's hard to find a beginning to the vicious circle of no fans and a horrible record . . . it could be the team played poorly because the din created by the three or four fans prevented concentration . . . or it could be no one ever went to the games because of the seemingly unavoidable losses that prevailed.

### Bless Coaches Partel and Kirmss

Following right on the heels of the spirit-arousing soccer schedule was an equally inspiring basketball year. Several years back, when Coach Partel still coached the team, his squad used two hand sets and played an old brand of basketball that drew many laughs. When Coach Lyon took over with a more modern style of play, people stopped laughing, but the marked decrease in wins since the Partel era has started some of them crying.

It's lucky for Stute sports fans that Coach Partel stuck around to coach, because his squash team traditionally battles it out for the Metropolitan area title. This year, it wasn't much of a battle, with the racquetmen winning the championship with relative ease.

The success of the squash team, coupled with the strong second place finish of Coach Kirmss' traditionally strong fencers, made the fall and winter a little easier to take.

### Spring Season Surprises

Tech is traditionally strong in lacrosse, possibly due to Coach Seymour, who has received many honors. In his initial season here as coach, the team compiled a 6-3 record; they followed the next year with a 7-1-1. In 1956, "Buzz" was named assistant coach for the North in the annual North-South game. One year later, he was head coach when the North took a 14-10 win.

This year, despite the fine coaching and some very good play, the team ran into hard luck and recorded a surprisingly poor record. The team just suffered too many losses of men. Pete Stevens, a real solid defense man, was injured in mid season. Jeff Cerny, the spark-plug of the entire defense, was also out with an injury, but the biggest loss was Nick Heinrich, who would have been a sure bet for All-American.

Last year's strong team was helped quite a bit by Nick's scoring average, which was second in the nation. Without him, it was just a little too much to put together another powerful team.

As strong as the Red and Gray is supposed to be in lacrosse, it is even better known for its traditional weakness in baseball. This year, a tremendous start with the wonderful arm of John Wojcik on the mound led to predictions of a winning season, but injuries plagued the Stevens nine also. First Wojcik injured his arm, then backup men Al Norby and Ron Slember sustained injuries of their own. This forced Coach Singer to pitch John Parisi, a second baseman, and Mike Golden, who was not originally on the team. The result was a 5-7 record, with the Drexel game this Saturday closing the season.

Once again, sports fans had to turn to Frank Partel for some ray of hope. Several weeks back, the Sporting Comment had the audacity to predict a poor season for the netmen. This was based on the fact that, no matter how good the coaching was, the ridiculous practice conditions were too much of a handicap.

Good coaching and the players' dedication can overcome lack of courts though . . . this is obvious from the 5-2 record the squad posted.

### Football, Etc., Etc.

Perhaps the biggest news this year was the football club conflict. At first glance, it would appear the conflict was between a pro-football student body and an anti-club administration, led by one man who appeared on more committees and figured in more decisions than ANY man should. Maybe when a final verdict is decided on, and if the students ever find out what went on during some meetings they were not allowed representation at . . . maybe then a more accurate and lasting conclusion about the "conflict" can be drawn.

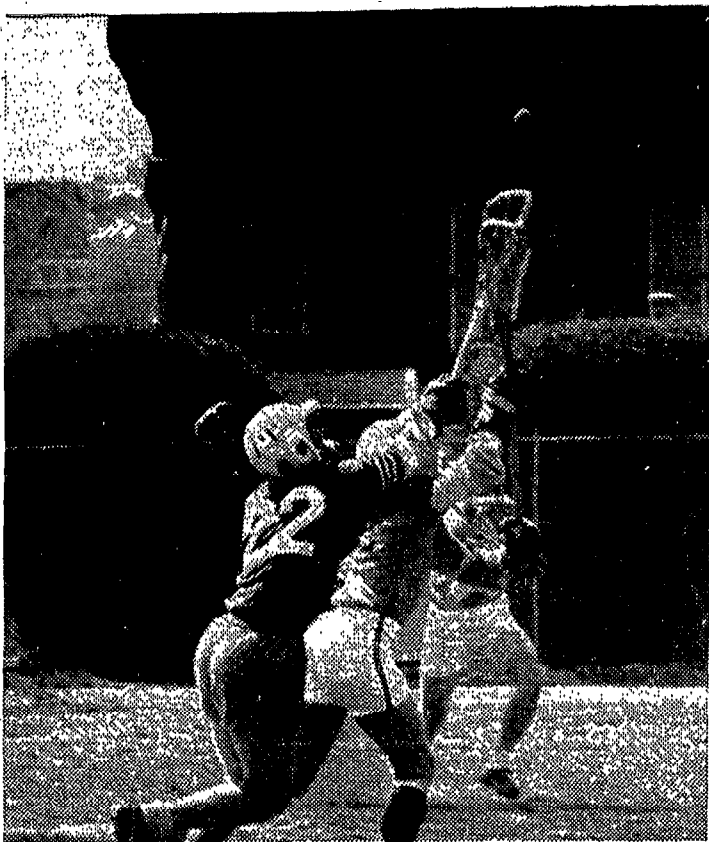
All in all, for a school with a curriculum like Stevens, it was a successful year.

It was the year Bill Moffit bowled a 275 in the center . . . an unofficial Stevens record.

It was the year Wade Merrick, former Sportsman of the Month, brought honor upon himself and the school when he not only won the Joe Lapchick Scholarship for metropolitan area basketball players, but stole the show from stars like Wilt Chamberlain with the fine impression he made at the awards banquet.

It was also the year Armin Steuber, former Student Council President, brought honor on himself for his fine sportsmanship in interclass softball . . .

It was a good year — and it's over!



Wade Merrick fights for the ball with two RPI men during last Saturday's lacrosse game, which RPI took, 11-6. Led by Merrick and Hank Berry, the team overcame the quick five-goal lead the men from Troy had taken, and the match was tied at 6-6 in the third quarter. The RPI depth proved too much, however, and a tired-out Stevens team finally succumbed in the final period.