

JHU Biophysics Willed Five Million

Gun-Toting Detectives Force Junior Prom Drinking Ban



—FARNHAM

Junior Promer pours a long drink from a bottle that privately hired police failed to confiscate at Saturday night's Alcazar Dance.

Two gun-carrying detectives greeted couples as they arrived at the Alcazar last Saturday night for the Junior Prom, and relieved them of their alcoholic beverages.

K. F. Hofmann, manager of the Alcazar Hotel, said, "There were too many minors there to allow drinking. If you allow anyone to drink when some youngsters are present, sooner or later, they'll all get some."

The Alcazar has been contracted to host June Week's Senior Prom. Hofmann stated that drinking would be prohibited as long as minors were present, unless the June Week committee could guarantee, in writing, that no minors would be permitted to possess alcoholic beverages. "We're not going to let it go and break the law ourselves. If someone is going to break the law, then it's not going to be us."

No Comment
Bob Mitgang, June Week Chairman, was not aware of this potential prohibition. "I can't say anything now . . . I have no comment," he said. Mitgang stated that the contract did contain a clause which permits the Alcazar to regulate that which they term indecent behavior.

If, he added, the organization using the Alcazar's facilities doesn't comply with the agreements concerning this behavior, the management may ask the organization to leave. If they don't leave, the Alcazar has the right to turn off the lights.

Juniors Pay - - - Why?
The salaries of the two uniformed private detectives were paid by Junior Class. Hofmann said, "They weren't forced to hire them; we explained it was the only way we could control drinking."

"We welcome Johns Hopkins' business but if it means breaking the law to get it, we're not going to do it," Hofmann concluded.

Steinwald stated that although the financial results of the Prom had not been completely tabulated, they were not expected to meet costs. He estimated to attendance at 200 couples.

Baltimore Colts Name Bridgers As Line Coach

By AL FIGINSKI

John Bridgers, head football coach at Hopkins since 1953, has been named defensive line coach and offensive tackle coach of the Baltimore Colts of the National Professional Football League. He will begin his new duties next week.

After resigning his Hopkins post, Bridgers stated, "I leave Hopkins with many regrets. The experience that I have had with the fine boys I have coached here in football and track, is something that will mean a great deal to me always. I appreciate the cooperation of my fellow coaches and Trainer Jim Benson. I also have been gratified by the co-operating spirit and friendship of many students and faculty members."

Marshall Turner, Hopkins Athletic Director, commented on the appointment of Bridgers by saying, "we are awfully sorry to lose him. He has done a good job of building up football. We are happy that he is going with the Colts, for they are a good outfit to be with. He can do a good job for them."

Under the guidance of Bridgers, the Jays captured the Mason-Dixon football championship last season while compiling a 4-3-1 record. This was the first title for the Birds since 1948. In four seasons Bridgers compiled a 10-21-1 gridiron record. Bridgers also coached the varsity trackmen.

Fraternity Board Votes To Uphold Rushing Drinking

By CLEVELAND MILLER

The Inter-Fraternity Board last Friday voted eight to five against a motion "That the IFB abolish drinking at rush functions only."

IFB President Bill Kolomaznik said "Some fraternities felt it was worthwhile to 'sacrifice' drinking at a few rush parties so as to insure non-intervention for the rest of the year. Other fraternities felt the concession in rush season would ultimately lead to the prohibition of drinking for the entire year."

The discussion on drinking lasted for two months and included an address by Dr. G. Wilson Shaffer, Dean of the Homewood Schools, to the IFB in which he urged the abolition of drinking during the rush period. These are the stands of the following fraternity representatives (some were unavailable for comment).

John Hanst of ATO said, "The chapter felt that dry rush par-

(Continued on Page 2)

— Honor —

All applications to the new Honor Commission should show the applicant's name, University P.O. Box number, and a copy of his schedule to: Roger Kane, Honor Commission Vice-Chairman, P.O. Box 2271. An interview will be arranged.

Eisenhower Hails Bequest As 'Most Significant Gift'

\$5,000,000 has been willed the Johns Hopkins University by the late May McShane Jenkins to further endow its Department of Biophysics.

After providing substantially for her daughter, and making certain other gifts to relatives and friends, Mrs. Jenkins left the residue of her estate to the Johns Hopkins University, it was announced early this week.

Mr. Carlyle Barton, President of the Johns Hopkins Board of Trustees, commenting on the will said, "the be-

quest was in furtherance of Mrs. Jenkins' avowed intention to endow and perpetuate through her estate, the Thomas C. Jenkins Department of Biophysics established by her in 1947 as a memorial to her husband."

While the amount of the estate as shown by the court papers, filed in Orphans' Court of Baltimore City, was estimated at one million dollars, Mr. Barton explained that the total amount that the University would ultimately receive, is expected to be in the area of five million dollars, as it includes the estates of her late husband over which she had control with the right to designate the recipient.

Dr. Milton S. Eisenhower, president of Johns Hopkins expressed appreciation for the generous gift, saying, "It is certainly one of the most significant gifts the Johns Hopkins University has received."

"As Mrs. Jenkins stated in her will," he added, "the gift is to be used to carry on the activities of the Biophysics Department. . . ."

"The interrelation of biology and physics is an important field of study," Dr. Eisenhower said. "There are few investigators with thorough training in the fundamentals of both biology and physics who can do advanced work in the combined biophysics field. Johns Hopkins is performing a unique service in producing investigators who are capable of advancing biology in terms of physics and mathematics."

Ticket Sales Up; Cadets Coerced As Dance Nears

"I want every man in my company to buy a ticket . . . I don't give a damn what the News Letter says," one company commander told his troops, referring to the Military Ball to be held March 16 in the gym.

"I'm not saying that anything will happen to the cadet that does not buy a ticket. However, it is my opinion that not buying a ticket will reflect on the person's desire to continue in advanced ROTC," the commander added. Said a member of the corps, "There is coercion, all right."

Cadet Colonel Jim Buddo stated, "There is no coercion to my knowledge; nobody is compelled to buy a ticket—it's entirely the individual cadet's own business; nobody will be awarded demerits. Buddo commented that company commanders were told to make sure that all cadets knew about the dance. Referring to the question of whether cadets should attend the dance, Buddo stated, "I think it's the least they can do."

Pushing Hard

Said another commander, "We're pushing this thing. Everyone who bought a ticket, hold up your hands. By next week I want all of you to have

(Continued on Page 2)

Third Concert In Closed Series To Feature Tchaikovsky, Strauss

The third and final concert of a current series by the Baltimore Symphony Orchestra will be given Sunday at 4 p. m. in Shriver Hall, conducted by Massimo Freccia.

The program includes "Overture, Oberon" by Weber, "Symphony No. 4 in F Minor" by Tchaikovsky, "El Salon Mexico" by Copland, and "Der Rosenkavalier Suite" by Richard Strauss.

Dr. Freccia joined the Baltimore Symphony Orchestra in 1952. Prior to that time, he served as Conductor of the Havana Philharmonic and the New Orleans Symphony Orchestra. He studied in Vienna and was accepted as an apprentice to Franz Schalk, head of the Vienna State Opera.

Mr. Osmar Steinwald, director of the Hopkins' music program, reports an increase in the attendance at the second concert over that of the first.

Tickets are priced at \$2.00 and can be purchased at Mr. Steinwald's office in Shriver Hall or at the door on the day of the concert.



MASSIMO FRECCIA

Barry Wood To Give Third University Talk

Dr. W. Barry Wood, Jr., vice president of the Johns Hopkins Hospital and the Johns Hopkins University, will deliver the third in this year's series of University Lectures at 4:15 p. m. Wednesday, March 13, in Shriver Hall at Homewood.

Dr. Wood, professor of microbiology at the School of Medicine will talk on "Studies on the Biology of Inflammation" in the lecture next week, which will be open to the public as well as faculties, students and staff of the university.

The series, which has included this year both Dr. William L. Straus, Jr., professor of physical anthropology, and Dr. Simon Kuznets, professor of political economy, is planned each year by Hopkins' Group Council. Speakers are chosen by a vote of the faculty at large.

Harvard man

Dr. Wood is a member of the board of governors of Harvard College and of the board of trustees of the Rockefeller Foundation. He was made vice president of the University here in

April 1955.

He graduated from Harvard in 1932 with highest academic honors, summa cum laude, and with varsity letters in football, baseball, hockey, and tennis. His medical doctorate was awarded by Johns Hopkins in 1936.

Other positions

He is a member of the American Society for Clinical Investigation, a fellow of the American College of Physicians and former president of the Central Society for Clinical Research.

Dr. Wood is also a member of the Society for Experimental Biology and Medicine, the Society of American Bacteriologists, the Pharmacology and Experimental Therapeutics Study Section, United States Public Health Service, the Medicine Fellowship Board, the National Research Council and the Association of American Physicians.

The final University Lecture of the year will be given by Dr. Sidney Painter, professor of history, on "Feudalism in Western Civilization" on April 10 in Shriver Hall.

Ball Coercion Questioned

(Continued from Page 1)

one or you better have a good excuse."

According to Howard Wisch, publicity chairman of the dance, the tickets are going "like hot-cakes" with 200 already sold to cadets. A complete sellout is expected as has been the case in previous years. A large percentage of the 350-400 cadets are expected to support the dance which means that there will only be about 200 tickets available to the rest of the student body. There is no more \$2.50

social fee according to Wisch and tickets are now priced at \$2.75. Tickets are now on sale every day at noon in Levering Hall. They will also be on sale at the door.

Craig To Play

Continuous music for the formal dance is being provided by Bob Craig's Orchestra.

Set-ups will be sold and a photographer will be present to take pictures. Table reservations for large tables may be made through Lou Kady, the price being \$2.00.

Alcohol Abolition During Rushing: IFB Says 'No'

(Continued from Page 1)

ties would not appreciably affect our rushing, and we were willing to alleviate outside pressure by excluding alcohol from these parties."

Larry Wolf, of AEPI, said, "The fraternity felt that during the rush parties, the fact that so many outsiders were present might lead the police to feel that the house had taken on the character of a public pub. Actually, I haven't seen too much of a drinking problem at the AEPI house even during rushing, but it's worth avoiding trouble."

Joel Woody of KA, on the other hand said, "We feel that it would only be a short step from abolishing drinking at rushing to abolishing it altogether. If the character of the student body at Hopkins has changed, then we feel we should stop publicizing ourselves as a unique community where the freedom of the individual is stressed and in such a case the administration must be willing to take on the additional responsibilities of completely overseeing the development of the student in areas of religion, morals, ethics, dress, social behavior, curfews, dormitory restrictions, and even the question of honor such as is in effect in various degrees at other private and state-sponsored institutions of learning."

Ray Garman of Phi Psi said, "A majority of the brothers voted against the prohibition of drinking at rush functions. Some of them expressed the opinion that they felt it was a first step to a gradual encroachment upon the traditional freedom of the Hopkins."

Submit Entries By April 15 For T & S Literary Contest

by BILL BERG

April 15 is the deadline for submission of entries to the Tudor and Stuart Club's literary contest, reports Mark Doyle, Executive Secretary of the Club.

The purpose of the contest is to use the literary club's funds to stimulate undergraduate literary activity. The contest is open to all Hopkins undergraduates, and will be divided into three areas.

The first area of competition lies in the creative or imaginative phase of writing, such as the short story, or poetry. The prize

for the best entry in this field will be forty dollars.

The second area in the contest is the essay. "Elegance of style will be a prime consideration", says Doyle. The prize for the best non-fiction entry will be forty dollars.

The judging panel will comprise the same faculty members as last year, all being from the English department. Drs. D. C. Allen and J. H. Miller will judge the creative writing entries, and Drs. T. E. Anderson and C. Vann Woodward will judge the essays.

There will also be a prize of twenty dollars for the undergraduate who has accumulated the most comprehensive library in the field of his special interest. The contestant must submit to the Club a statement of the purpose and significance of this library in his particular field.

Doyle also reports the election of 23 Hopkins students to membership in the Tudor and Stuart Club.

Undergraduates elected were: Claude Barfield, Malcolm Baroway, Benjamin Davis, John Doeering, Joel Glasser, Richard Kapp, Robert Francis McHugh, David Milgrome, Kenneth L. Moler, John Rountzounis, David Seipt, William Stewart, Rutherford Turnbull, and Sidney Waldron.

Graduates elected were: Oakes Ames (Physics), Sanford Cohen (Medicine), Jefferson Davis Futch (History), George Callard (Medicine), J. Manley (English), Donald Sherman (English), Lawrence Sirovich (Aeronautics), Edward Todd (History), and C. Hill Womble (Classics).

The next important Tudor and Stuart activity will be the Club's annual lecture, which will be announced within the next few weeks.

Debaters Slating Brooklyn Attack During Weekend

By JOEL GORDON

"I am very optimistic," said Debate Council president Earl Baker about the Council's chances in this Saturday's tournament at Brooklyn College.

Two teams are being sent to the debate. Representing the affirmative will be Sandy Schwartz and Bill Willoughby. The negative team is composed of Herb Butler and Al Wilner.

Baker commented that the Council was, "lucky to have Dr. Edith Penrose as a debate coach." Dr. Penrose is "familiar with the resolve: The U. S. Should Discontinue Direct Economic Aid," he continued, "since she is a professor of international monetary economics."

Last week the Hopkins debaters suffered a setback at Boston University, where a team of Larry Wolf and Les Norins participated in nine separate contests.

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Student Council Election Schedule



—FARNHAM

Student Council President Lew Sank with junior council members Tony Salem and Penn Lupovich.

The following is the schedule for the Student Council Elections:

March 11—Petitions will be distributed at the Student Activities Commission's office in the Barn.

March 14, 15—Petitions are to

be turned in at the S.A.C. office.

All petitions must contain a ten percent endorsement of a campaigner's total class enrollment.

March 19—All campaigns will begin.

April 3, 4—All elections will be held.

Tillich To Deliver Lecture On Christianity, Monday

Dr. Paul Tillich, philosopher, theologian and Harvard professor, will deliver a lecture Monday as part of the Johns Hopkins Y.M.C.A.s Religion in Life Program.

The talk, which will be entitled "Christianity and Existentialism," is slated for 4 p.m. in the main auditorium of Levering Hall on the Homewood campus.

Sponsored by the Hopkins Council of Religious Groups, Dr. Tillich's lecture is part of a series by noted theologians and religious leaders being presented throughout the current school year.

Dr. Tillich was educated in German universities and has taught at five of them. He came to America in 1934 and was given a post as Professor of Theology at the Union Theological Seminary in New York. Upon his retirement in 1955, he joined the faculty of the Harvard Divinity School and was also appointed a University Professor at Harvard.

In early years his interest was in the relation of religion to

social and political life, but has lately become centered in the relation between religion and depth psychology, as well as religion and the arts.

He is presently completing the second volume of his early life work, *Systematic Theology*, and has published numerous other books on philosophy and theology, among which are *The Religious Situation*, *The Protestant Era*, *The Shaking of the Foundations*, *Love, Power and Justice*, and *The Courage to Be*. His most recent, *Dynamics of Faith*, was published this winter.

The Hopkins' sponsors of Dr. Tillich's talk, which will be open to students, faculties, friends of Hopkins, include the following: The Newman Club, the Canterbury Association, the Wesley Fellowship, the Jewish Students' Association, the Westminster Fellowship, and the Lutheran Students Association.

Dr. Chester L. Wickwire, lecturer in religion and executive secretary of the Hopkins YMCA, announced that there will be a coffee hour and discussion period held after Dr. Tillich's lecture.

A Campus-to-Career Case History



"The future looks unlimited"

"I wanted a career that offered variety, opportunity and a chance to work with people," says Lewis William Post, C.E., Michigan State, 1950. "That's why I went to work for the telephone company."

"My initial training—two full years of it—probed every phase of company operations and acquainted me with all of the jobs in the Plant Department, where I was starting."

"Today, as Plant Engineer, I'm responsible for preventive maintenance of all field equipment, installation of new facilities for wire and cable, and I work with architects and builders on telephone needs in new buildings."

"Selling's part of my job, too. I sell ideas—like the wisdom of planning for telephone service when you're building. Recently I advised an architect and an owner on telephone wiring and outlets in a new \$160,000 medical center. I enjoy getting in on the ground floor of such projects and making contributions both as a civil and a telephone engineer."

"In my area of Chicago there are 30,000 telephones, home and business. More are being added every day. There's expansion everywhere in the telephone business—all across the country. To me, the future looks unlimited."

Lew Post's career is with Illinois Bell Telephone Company. Many interesting career opportunities exist in other Bell Telephone Companies, Bell Telephone Laboratories, Western Electric and Sandia Corporation. Your placement officer can give you more information about them.



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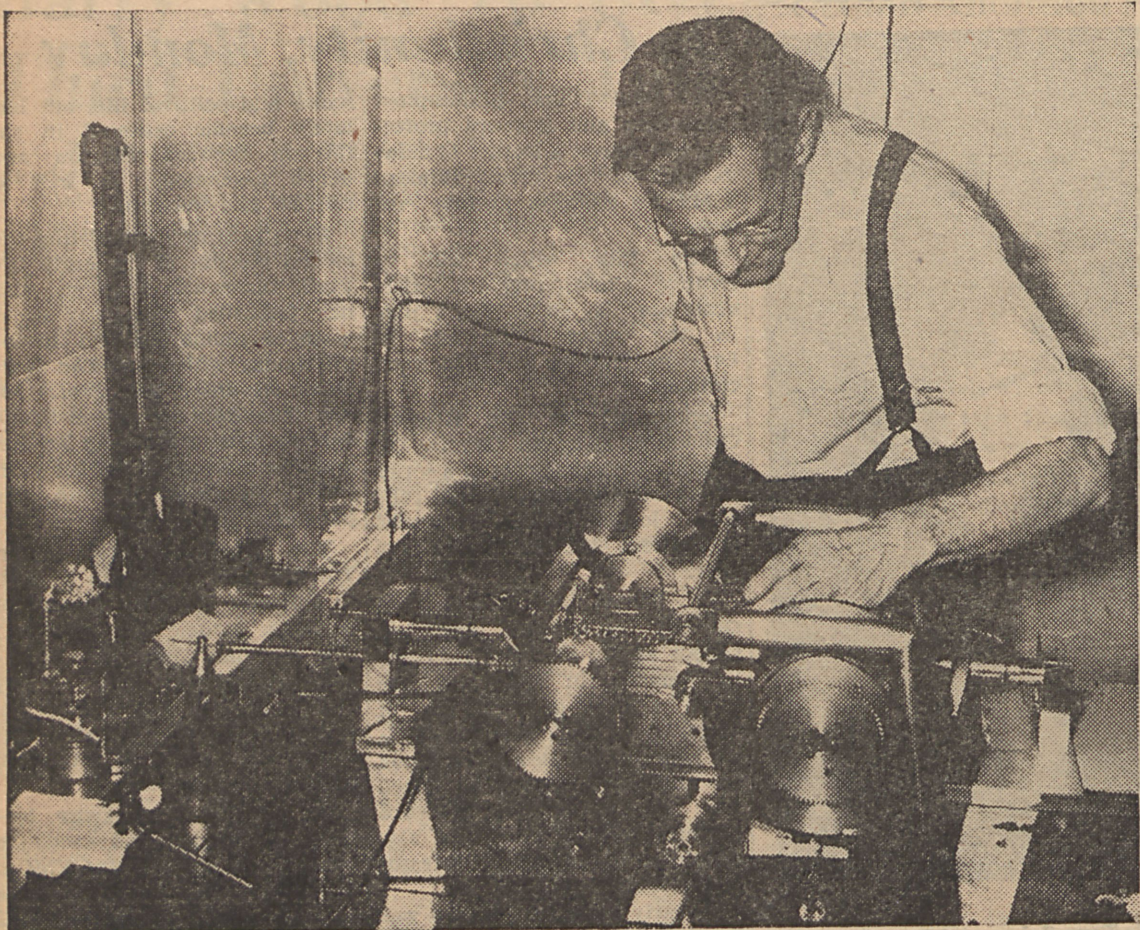
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Fantastic Accuracy Achieved In Ruling Engines



By STAN MIDDLEMAN

In the sub-basement of Rowland Hall sits one of the most accurate pieces of machinery in the world. (See left.) It rules parallel lines on an aluminum surfaced glass blank—as many as 28,800 lines per inch—and, together with others of its kind, has been responsible to a great extent for the knowledge we possess of the sub-atomic world.

This ruling engine, and its product, the diffraction grating, are a source of great personal pride for the University. The diffraction grating is essentially a plate containing many closely spaced parallel lines. The properties of radiation, such as light waves, diffracted from such a plate enable the physicist to interpret and better understand sub-atomic phenomena, as well as to gain a picture of atomic and molecular structure.

In 1880, Professor Henry A. Rowland, first professor of Physics of the Hopkins, built the first successful ruling engine. Others had been constructed previously, but they failed to work. A picture of this engine appears on page 8.

The heart of the Rowland engine was a threaded shaft, the

lead screw, which advanced the blank from row to row. The carriage of the cutting tool, a diamond stylus, moved back and forth across the blank. On the forward stroke a line would be ruled; on the return movement, which was not a cutting stroke, the blank was advanced into position for the next line.

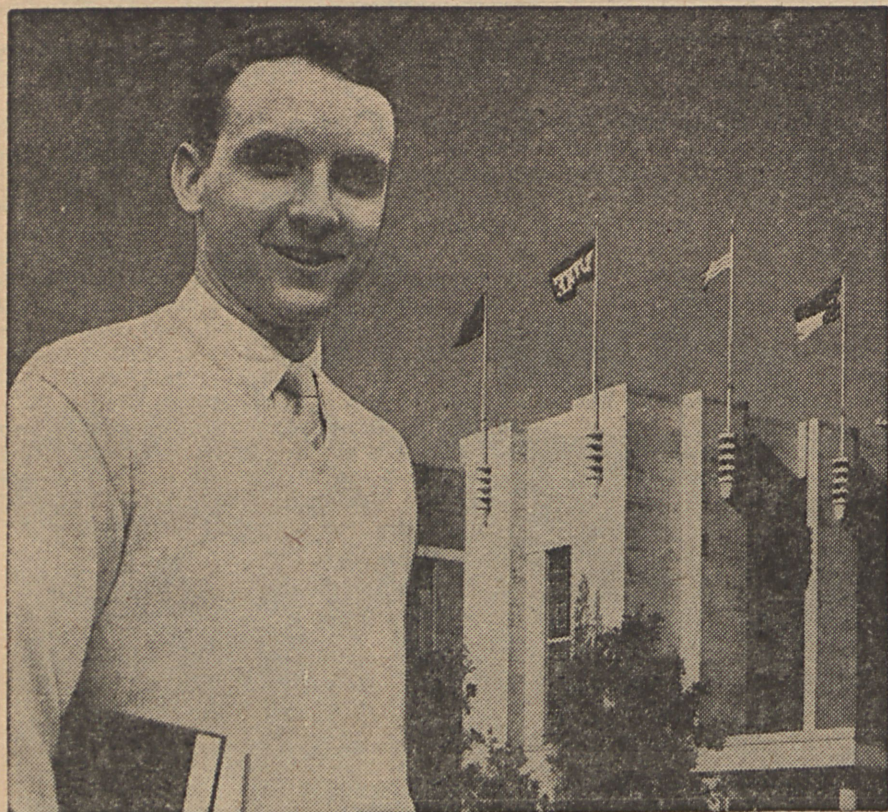
The first Rowland engine, still in operation, ruled 800 lines per inch. These lines were not always exactly parallel, however, and therein lay the challenge to build a better engine.

The challenge was accepted and fulfilled by John D. Strong, professor of experimental physics. The Strong design has two basic improvements over the Rowland engine. The stylus, rather than the blank, is advanced from row to row, a twin screw assembly is used to accomplish this, rather than the single threaded shaft, as in the Rowland engine.

The Strong design features two cylindrical bearings which position the blank and insure parallel lines. The space between the moving parts—a shaft and a cylinder—is extremely small, and is filled with a lubricating oil which tends to center the shaft, much as water waves tend to center a ship in a narrow canal.

Because a constant consistency of the oil is essential to proper ruling, the ruling operation, once started, is not stopped until completion of the grating. The engine, making a cutting stroke every three seconds, requires

(Continued on Page 6)



James B. Walker received his B.S. in mechanical engineering from North Carolina State College in June, 1954, and was working toward his M.S. in the same field when he was called for military service.

Jim Walker asks:

Can a mechanical engineer make real progress in a chemical firm?



"Pick" Pickering answers:

You might call that a leading question, Jim, but the answer leads right into my bailiwick. I came to Du Pont in 1940, after taking a combined mechanical and electrical engineering course. So I had what you might call a double reason for wondering about my future with a chemical firm.

I soon learned that the success of a large-scale chemical process hinges importantly on mechanical equipment. And the success of this equipment—especially for a new process—depends on (1) Research, (2) Development, (3) Plant Engineering, and (4) Close Supervision. The net result is that a mechanical engineer at Du Pont can progress along any one of these four broad highways to a top-level position.

My own Du Pont experience includes mechanical engineering work in fields as varied as atomic energy, fabrics and finishes, and nylon manufacture. Every one of these brought with it a new set of challenging problems in construction, instrumentation and power supply. And every one provided the sort of opportunities a man gets in a pioneering industry.

So, to answer your question, Jim, a mechanical engineer certainly has plenty of chances to get somewhere with a chemical company like Du Pont.

H. M. Pickering, Jr., received a B.S. in M.E. and E.E. from the University of Minnesota in 1940. He gained valuable technical experience at Hanford Works, in Richland, Wash., and in Du Pont's Fabrics and Finishes Plant at Parlin, N. J. Today, he is Assistant Plant Manager at Du Pont's Seaford, Del., plant, where nylon is made.



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Biunno Takes Rutgers Job As Director Of Admissions

Assistant Director of Admissions Robert Biunno has accepted the position of Director of Admissions at the Newark Colleges of Rutgers University, and

will leave his job at Hopkins on May 1.

A former Assistant Director of Admissions, Robert Bilgrav, will resume the job he had until 1955, when he left to work in Hawaii. Bilgrav will officially begin work July 1.

Biunno said the job at Rutgers offers him a "wonderful opportunity to improve my own background," and gave this as his reason for leaving Hopkins.

Director of Admissions, William Logan, said that Bilgrav, who previously coached basketball and baseball at the university, is "not planned as an integral part in coaching" and that it was "very fortunate that he was available." Bilgrav first came to Hopkins in 1949 as assistant to Logan and as a basketball coach. He later became baseball coach in 1953, after serving in the Marines from 1951 to 1952.

Biunno graduated from Hopkins in 1948 and served as Assistant Director of Admissions until 1949, when he became director of the Bureau of Appointments (now the Placement Bureau).

Central Publicity Chooses Casazza In Business Post

The Central Publicity Office continued its reorganization by electing a business manager and a secretary at the second meeting of the group on Saturday.

The eleven men present elected John Casazza to the post of business manager, and Mike Garrick was chosen secretary. Al Larkin had been chosen chairman of the CPO at the first meeting. The elections were held under the supervision of the Student Council members Penn Lupovich and Khanh Huynh.

In addition to new officers, CPO will draw up a new policy subject to approval by the SC. CPO's functions previously had been proposed by the Student Activities Commission and approved by the Student Council.

— BAND —

The Band Concert is March 15, rather than tonight as previously reported.

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The Personal Touch

In the plan to raise the level of the Hopkins undergraduate school, emphasis has been placed upon the quality of the student body. Dr. Eisenhower pointed out that the failure of secondary school guidance departments to recommend Hopkins to their top students is one reason why 70 per cent of the incoming freshmen did not graduate in the top ten per cent of their high-school class. The reasons for this lack of recommendation are not certain, the President added. We do not propose to have all the answers, but we submit that not enough "salesmen" is one of the causes.

We are not advocating a huge admissions staff although some expansion of the staff would seem in order. Selling Hopkins to students in 48 states is too large a job for two full-time men. Even guiding a nation-wide admissions program seems too large for just two men. But a lack of funds prohibits a greatly expanded admissions office. What is needed is more alumni and student aid! No corporation today can sit back, secure in the knowledge that its products will be sold or that its manpower needs will be fulfilled. As evidence we point to the great advertising industry and as immediate evidence, the advertising in the *News-Letter* and the interviews on this campus and campuses across the nation. This is considered good business. The personal approach is the thing! These companies do not rely on such factors as: people buy our product every day and must realize that we need personnel to produce it; or that we have a sign on the door reading employment office, walk in. No, they ferret out the top prospects and try to convince them with a sales talk tailored to that individual.

Some may be shocked that we compare attracting students to selling washing machines or even to hiring procedures practiced by firms, but there is a great similarity. What has this to do with Hopkins in particular? First, we propose a larger budget for the admissions office so that more "advertising material" can be sent out to every high school in the country. There is no excuse for the guidance director of a large high school within a fifty-mile radius of Baltimore knowing of Johns Hopkins only as a medical school! How many times has every student at Hopkins been asked "Are you studying to be a doctor? I thought Hopkins was a medical school." Included in this advertising program should be a film. This may not be a "beer and pretzel" school and scholarly pursuits should be emphasized, but pictures of laboratories and library stacks are not going to be the only inducements necessary to attract the type of student who wants to go out in the world as a businessman, engineer, lawyer, or scholar. Therefore, the admissions office should use a film showing Hopkins in the proper perspective but geared to attracting students.

But even more than the "advertising material," movies, and publicity through references to Hopkins in newspapers, and magazines, which prepare the field, there is a need for the personal approach. This is our second point. As has been shown, financial considerations make it impossible to maintain a professional staff large enough to cover the country adequately. To alleviate this situation, this university needs great numbers of interested alumni who are willing and able to sell Hopkins to the high schools in their community. Work is being done in this respect in Baltimore and Pittsburgh, to name two areas. Unfortunately such alumni action is rare. In addition to more alumni participation, students attending here may be in a position to persuade top-flight high school seniors to attend the Hopkins. A positive effort by the student body in this direction can be a great step forward in gaining the type of student we desire.

H.K.

Biology Students Volunteer For Radioactive Injections



this manner before they actually contract the disease.

Protection Urged

Dr. Glass has urged that persons with known cases of the disease in their immediate family take the test as soon as possible for their own protection.

Numerous rumors concerning the after-effects of the testing program have been circulating among the volunteers such as a six-week period of sterility. Dr. Glass, however, has assured those students taking part in the experiment that there would be no greater danger than from wearing a radium-dial wrist watch for one year; the normal B12 flushes the cobalt-60 from the system so effectively that practically all of it is excreted within twenty-four hours.

He emphasized that there will be no more discomfort than that of the actual tests—the injections, a five hour period of not eating prior to the test, and the drinking of "a rather flat-tasting" solution of the cobalt-60. Another possible after-effect is feeling of listlessness for perhaps a month after the test.

One Month Of Listlessness

By PETE KIVIC

Many Hopkins students are becoming "guinea pigs" for the sake of science.

In order to assist in the fight against a deadly disease, Hopkins volunteers are allowing themselves to be fed radio-active vitamins and to be given intravenous injections of B12.

The disease is pernicious anemia, an hereditary disorder which is usually fatal; it is now known to result from an inability of the body to utilize vitamin B12. Recent scientific studies have shown a definite relationship between pernicious anemia and failure to absorb the vitamin.

Runs In Family

Genetic research has demonstrated that one-half of the immediate family (brothers, sisters, parents, and children) of a victim are potential victims themselves.

The Homewood experiments are all a part of the work of Miss Patricia Macintyre, Dr. Julius Krevens, and Dr. C. Lockard Conley, all members of the staff of the Hopkins Hospital; Dr. Conley is chairman of the hospital's Department of Hematology. They have been engaged in their present research for a great many months.

The present undertaking is the first large-scale controlled-group experimentation attempted by the researchers: the Hopkins students represent "a random sampling of the general population" according to Miss Macintyre, who said that "probably two or three potential victims will be found" in this group.

Absorption Of B-12

The idea behind this experiment is to test the body's ability to absorb the vitamin; a low absorber is a potential victim of the disease.

Vitamin B12 is "peculiar" in that every molecule of it contains one atom of cobalt. In order to trace the absorption of B12 by the body, it has been "tagged" by the substitution of radio-active cobalt-60 for the normally present stable variety of the element.

Cobalt-60 is the same isotope which is employed in cancer therapy as a substitute for radium.

Volunteers for the experiment

are being recruited by Dr. H. Bently Glass, Professor of Biology, from the members of his course in Introductory Biology. According to Dr. Glass at least eighty volunteers are needed for significant results due to hereditary nature of the disease.

Tests In Labs

Actual testing was conducted during the regular biology laboratory periods. The volunteers were fed small doses of radio-active B12 (equal to about 0.3 microcuries). Half an hour afterwards they were given intravenous injections of the normal B12 to flush the radio-active variety from their systems.

Each subject was then requested to collect a twenty-four hour total sample of urine; for this he was provided with a two liter bottle.

The samples collected were taken to the laboratory of the Hopkins Hospital where they are undergoing current analysis for radioactivity. These tests will determine the amount of "tracer" B12 absorbed into the body of each subject.

If any low absorbers are found in this group, they will be re-tested; and their families will be contacted and asked to submit to the test too. It is hoped that prospective pernicious anemia victims will be detected in

Ruling Engine

(Continued from Page 4)

about two weeks to complete a large grating.

Two new engines, completed around 1950, stand within 20 feet of the original Rowland engine.

A large measure of the success of the ruling engines is due to the technician who operates and services them; W. H. Perry, who appears in the pictures.

Mr. Perry, a native of Vermont, majored in Electrical Engineering at Worcester Tech. In 1930 he came to the Hopkins to operate the Rowland engine for Dr. Wood, then head of the Physics Department.

At that time only a third as many gratings were ruled a year as are presently produced. Today, orders from university and industrial research laboratories throughout the world have increased, as have the facilities for filling them.

Mr. Perry operates each engine inside of its individual aluminum lined, temperature controlled cubicle. In order to prevent the blanks from expanding enough to cause the rows to be unevenly spaced, temperature must be maintained constant to within better than .10 F.

In one wall of each cubicle is a window through which the

(Continued on Page 8)

Sssst !!



Gettysburg Struggle Illuminates Hopkins Honor System Success

By NIELS SUNDERMEYER

We at Hopkins take the Honor System for granted. Certainly the names Johns Hopkins University and Honor System go hand in hand, for they are each other. Yet what of a college where dishonesty and cheating in the classroom are common and everyday occurrences? Can such an institution, with students unaccustomed to responsibility, adopt and successfully manipulate such a system? If so, by what means can such a progressive step be taken?

Struggle For Honor

The purpose of this article is not to set before the Hopkins student the problems of another institution of learning nor to deprecate the students or faculty of that institution. It is merely to show to the Hopkinsian its struggle to adopt and successfully maintain an effective honor system. Through an understanding of the methods used in trying to put over such a system in a college where its concept has up to now been almost completely foreign we here may gain a greater appreciation and pride in our own Honor System.

Proctors, Prisoners

Gettysburg College in Gettysburg, Pennsylvania is a co-educational school of 1350 students. It has been run under the proctor system, one which treats the students as if they were prisoners on furlough. At each examination, professors and instructors (proctors) patrol the aisles in order to prevent and stop cheating.

It goes without saying that such a system makes of the student a proficient "sneak artist." The general attitude is that of "beat the prof." Fraternities and sororities employ "cooperative effort" during an exam, crib notes become fine-tuned instruments, and it is not surprising that in some cases the professor allows open cheating, realizing

he can do little to stop it.

Several methods to eliminate this spirit have been tried, but failed to be effective. Two years ago Gettysburg College attempted an honor system. A particular type of Honor System was proposed to the student body, but it did not receive an effective vote.

The Christian Way?

In early October of 1956 the students heard a speech on the Student Christian Association given by a professor at the college. In it he remarked that collegians practiced a strange sort of Christianity. They go to church and talk about Christianity, he said, but then walk into an exam room and cheat whenever possible. "Why is there no honor system?" he asked.

Immediately some of the students, realizing the absurdity of the situation, expressed their desire to establish an honor system at the college. A committee was organized, and before long plans were being drawn up to publicize this "drive" and to explain this new educational concept to the student body.

The Honor System Committee which planned the campaign was made up of students, not faculty. Professors were asked to serve as advisors. They also spoke to various campus groups concerning the honor ideal.

It was decided by the committee that no particular type of Honor System would at first be proposed, but that the concept of such a system should be approved; then its desired form could be established.

JHU An Example

With this aim in mind, the committee began its uphill battle. Material was obtained from institutions employing an Honor System, including Johns Hopkins University. Weekly articles, written by committee members, appeared in the college newspaper, *The Gettysburgian*. These attempted to explain honor systems to the student body. In one article, an open letter to the students, it was explained that "this campaign is being promoted by a spontaneously organized committee of about 25 members—to stimulate thought concerning the 'honor system' in general, apart from any particular plan."

The article went on to point out several arguments in favor of an honor system. In brief, it stated that the present "insulting" proctor system destroyed the joy of learning by instilling distrust between faculty and students and warping student-professor cooperation. It also said that an honor system would set a new standard of responsibility.

(Continued on Page 9)



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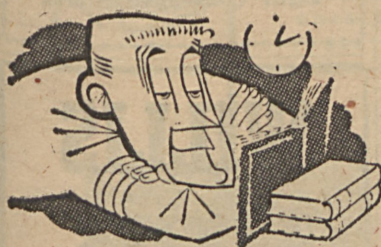
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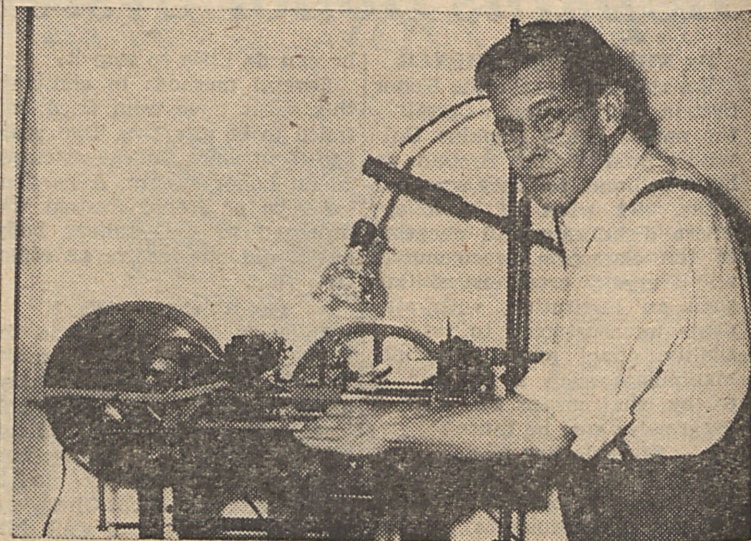
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Rowland, Strong, Perry Developed Ruling Engines



(Continued from Page 6)

ruling operation can be observed. The atmosphere is that of an operating room in which the life or death of a scientist's research

project hinges on the accuracy of the diamond stylus cutting its way across the blank.

The accuracy of the operating equipment underwent its severest test during the construction of Ames Hall. The driving of piles for the foundation of Ames set up vibrations in Rowland Hall. Ripples could be clearly seen in a pan of oil sitting on the frame of the ruling engine. Subsequent examination under microscope of the blank which was being cut at that time revealed that the stylus, which moved from row to row 30,000 times in advancing one inch, did not waver once during the entire operation.



"What's it like to be A MANUFACTURING ENGINEER AT IBM?"

Four years ago, Yale senior Lee Baker asked himself this question. Today, as a Product Control Engineer in IBM Manufacturing Engineering, Lee reviews his experience and gives some pointers that may be helpful to you in taking the first, most important step in your engineering career.

"It's tough," Lee sympathizes, "for a college senior to feel confident about choosing a job. For four years he's been trained to be critical and deliberate about making decisions. Now, faced with the biggest decision of all, he has only a few months in which to attend job interviews, separate the facts from the propaganda, and select a company—not to mention passing exams and graduating at the same time."

Lee, with a B.S. in Industrial Administration, came to IBM in 1953. Starting as a Technical Engineer in Production Control, he was immediately assigned to the General Manufacturing Education program—a



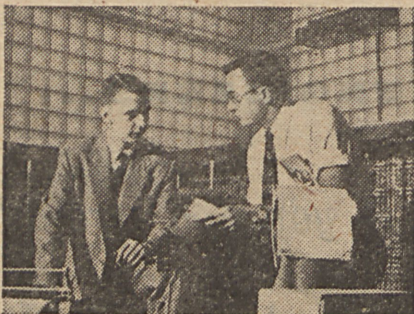
Designing a paperwork system

10-month course with rotating assignments in all phases of the work—manufacturing, purchasing, production. In addition to four weeks of formal classroom study, he also spent two in the Boston Sales Office, calling on accounts with the IBM salesmen.

Lee's career was temporarily interrupted by a two-year hitch with the Air Force in Korea. Back at IBM in 1955, he has since been promoted to Production Control Engineer. His present job is to design paperwork systems to insure a smooth flow of work through the plant where the famous IBM electronic computers are manufactured. "It takes creative engineering ability to design these systems," says Lee, "and it takes administrative ability to 'sell' a system to higher management and make it stick."

How to select an employer

To the college senior faced with a job decision, Lee has this to say: "Pick your employer by this simple test: 'Is the company expanding fast enough to provide adequate scope for your talents and ambitions? Is it interested in your long-range management development? Will it treat



"Selling" the system

you as an individual and match your abilities with the most challenging assignments?"

For his part, Lee feels IBM has met this test. Since 1953, he has seen new plants open, dozens of new products evolve, hundreds of new management positions created. Greater authority, responsibility and reward have come his way. And he knows they will continue, for IBM sales

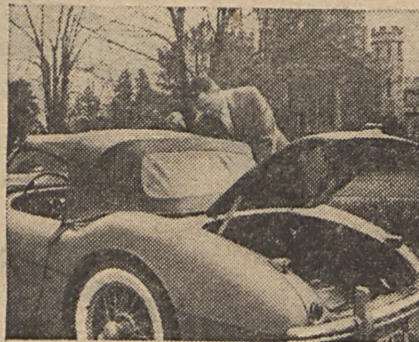


Recognition of individual merit

have been doubling on the average every five years since 1930. He likes the "small-team" engineering system that assures ready recognition of individual merit. And he appreciates the fact that IBM hired him despite his impending service hitch.

What's "life" like at IBM?

At IBM, Poughkeepsie, Lee lives a "full life." He belongs to a local sports car group, drives an Austin Healy. He skis at Bromley. He is a member of the IBM Footlighters and a local drama workshop. At present, he shares an apartment with two other engineers and a "medium-fi" set, but plans to marry "the girl next door" (in hometown Hamburg, Conn.), in the very near future. In this connection, Lee advises seniors to pay special attention to company benefits. "They may seem like a yawning matter when you're single, but they mean a lot when you assume responsibilities. IBM's are the best I know."



Lee lives a full life

IBM hopes that this message will help to give you some idea of what it's like to work in Manufacturing Engineering at IBM. There are equal opportunities for E.E.'s, M.E.'s, physicists, mathematicians and Liberal Arts majors in IBM's many divisions—Research, Product Development, Sales and Technical Services. Why not drop in and discuss IBM with your Placement Director? He can supply our latest brochure and tell you when IBM will next interview on your campus. Meanwhile, our Manager of Engineering Recruitment, Mr. R. A. Whitehorse, will be happy to answer your questions. Just write him at IBM, Room 9201, 590 Madison Avenue, New York 22, N.Y.

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Gettysburg Attempts 'Classroom Christianity'

(Continued from Page 7)

bility on the student. Student government would be enlarged, it added, and an example set for others to follow.

The strongest opposition to an honor system was made by the fraternities and sororities. Here again the element of brotherly love was introduced, but in a different light. The fraternities stated that they felt it "unfair" to expect fraternity brothers to report each other. Nevertheless it gradually became evident to these groups that cheating was dangerous to both the individual and the school and was a practice to be regretted as it harmed the group rather than helped it, in both reputation and integrity.

The original tide of skepticism began to turn, and *The Gettysburgian* soon reported that "most of the students at G-burg seem to be in favor of an (honor) system—."

At the end of November *The Gettysburgian* published a committee report on various systems of honor as found in other institutions. It summarized dif-

ferent systems in practice, from those mild ones covering only examinations to those encompassing all phases of campus life. Several interesting methods were discussed, all of which shifted feeling from "beat the prof" to "aid the student" and established general trust between the two groups.

How did the "man at the helm" feel about it? In a special interview with the *News-Letter*, General Willard S. Paul, president of Gettysburg College and Hopkins alumnus, class of '24, said that "in a Christian institution honesty is an integral part."

The General, a wartime friend of Pres. Dwight Eisenhower, when asked why he favored a system, said: "I am a firm believer in the honor system idea, for I think that students, given more responsibility become more responsible. Part of the job is to develop maturity which will prepare them for later life."

The student body seemed ready and willing to accept an honor system. Acceptance, how-

ever, is one thing, but practice was another. Admittedly a great number of the students at Gettysburg College are not of the type to successfully adhere to an honor system; a large number of them are in college only to have a good time. Studies come second to them and obtaining "acceptable" grades is only a matter of a little dishonesty, which to them is a necessity and therefore not frowned upon corporately.

The Honor Committee at the college realized this. It invited Porter Claxton, president of the Johns Hopkins Honor Commission, to address the student body on Feb. 27. It was, in fact the

culminating address to the students.

Claxton spoke concerning the establishment, functions, and methods of our Honor System and honor systems in general. A round table discussion between students and professors followed. "I was very impressed by the interest shown," stated Claxton later.

What can be surmised from the honor system drive and success at Gettysburg?

The fact that the drive was almost entirely student originated and run indicates a strong desire for more student government and responsibility. A professor stated that he was greatly impressed by "the students' ma-

turity and interest in the college."

The campaign shows how strongly the honor system ideal can be felt, even by a small group, and to what extent students can take the initiative from the faculty in attaining it.

But will the system function as was hoped? Certainly the vote would indicate it, as well as does the support of the president and most of the faculty of the college. Nevertheless, in large part its success depends on the planning and arranging of a suitable and workable system by the Honor Committee in collaboration with the faculty. The *News-Letter* believes it is in good hands.

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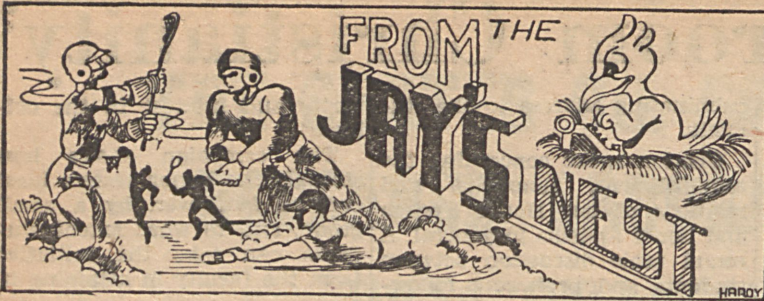


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FRIDAY
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BY AL FIGINSKI
Sports Editor

A minor sport is again in trouble on the Homewood campus. This time the problem lies not in the lack of undergraduate interest, but, rather, in the lack of a coach and little financial aid. Tennis is the sport in question.

It seems that the Athletic Department has been unable to find a man both "capable and interested" in coaching the varsity and freshmen tennis squads. At present the co-captains, with the administrative aid of Athletic Director, Marshall Turner, will direct the team.

Donation

The other problem facing the netmen is a lack of funds that will force each member of the team to "donate" \$2.50 toward the purchase of practice balls for the workouts.

We realize that to many undergraduates these problems are of no real interest. However, it is a very real problem to the members of the tennis team and deserves the attention of the public.

Coaches Hard To Find

The difficulties of finding a coach are many and of such a nature that it would be difficult to lay the blame at anyone's doorstep. We can only assume that every effort is being made to alleviate the coaching shortage. The other part of the problem can not be dismissed as easily.

When it becomes necessary for a participant in a sport to pay for practice equipment out of his own pocket, the situation become shoddy and deplorable. What would be the effect of forcing the baseball, lacrosse, and basketball teams to provide their own practice equipment? We realize that the price of tennis balls is astronomical, but we feel that, whatever the price, the boys should not be forced to provide them from their own money.

Possibly the money could come from some well-heeled alumnus, or maybe it could be "confiscated" from the fund originally allocated to the now defunct wrestling program. Both of these suggestions offer only temporary solutions. The only permanent solution would be a larger allotment for the tennis program in specific and the athletic program in general.

(Continued on Page 12)

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Lacrossemen Please Scott In Early Work Sessions

By HAL STOLLER

With only a few days of practice under their belts, Coach Robert Scott is pleased by the peppy workouts of the 38 man squad. The squad is not completed, lacking the four sophomore hoopsters, Ed Bernstein, Al Seivold, Mickey Webster and Bill Morrill, who are expected to aid the team considerably.

A four battle for goalie between Emmett Collins, Newton Kidd, Bobby Powell and Pete Banker is underway. Coach Scott considers them all as potentially four of the finest goalies in the country.

Defense

The defensemen candidates are headed up by Co-Captain Walt Mitchell, with Don Gallagher, Bob Edwards, and Steve Kaufman returning from the varsity. John McNealy, Harry Nice, Dick Leasure, Dave Meredith and Otis Read, all up from the Frosh, are in contention.

Co-Captain Jerry Bennet, Carl Muly, George Whitlock are the returning lettermen at midfield, greatly aided by Dick Steele, Third Team All-American in 1954. George Schwartz, Os Steinwald, Bob Dunton, Roger Klaesuis, Dick Hine are the other candidates for the midfield positions.

Jory At Attack

John Jory leads the candidates for the attackmen with lettermen George Breslau and Ed Skoglin, Dick Harrell, George Kay, Lew Rosenberg and Bob McDonald are also in contention



CARL MULY

for an attack position.

According to Coach Scott, a full field scrimmage will be held at the end of the week to separate the team into units. So far, there are no indications as to the starting team members, with the main emphasis in practice on conditioning and stickwork.

Since March 1 the Jays have been engaging in "official" workouts under the tutelage of Bob Scott and his assistant, Wilson Fewster. A feature of the daily workouts is "health time", the concluding segment of the workout including a "scenic tour" of the Homewood campus.

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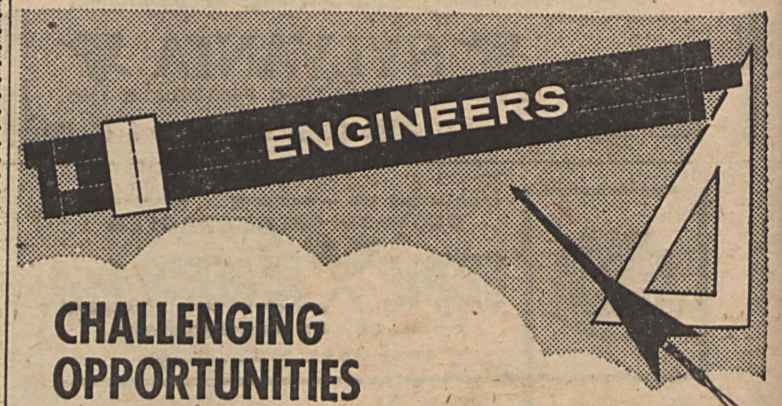
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Fencers Miss Trophy By One Point Margin

The Blue Jay varsity fencing team came within one point of winning the Yale Trophy last Saturday in the Middle Atlantic Championship at Lehigh University. The Jays amassed a total of 39 points only to be edged by the host's 40. Temple finished third with 38 points.

Dick Everett and Stu Veiss were Hopkins medal winners. Everett missed first place in the foil event by a single point. "Everett fenced beautifully,"

commented Cal Schlick, Hopkins coach.

Veiss compiled a 7-4 record in the epee events. Stu faced the difficult task of dueling the final three matches of the day with the outcome of the tournament depending on the outcome of his matches. The Jay epee man won two of the three matches from his Lehigh opponent.

Walt Suter, Darryl Carter, and Tom Feher each compiled 5 wins and 6 losses. Schlick said, "Suter lost some tough matches, but fenced well. Carter also lost some tough matches, while Feher dropped four matches by one touch."

Tom Fetsch, who had a 7-4 record with the sabre and finished one bout away from a medal, was complimented by Schlick for a "terrific job."

Schlick said, "In my opinion we were the best team at the Tournament. We showed a marked improvement and won on sheer determination. Next year we should have a strong team."

Rock In Motion



—GINNIS

Bill Rock, letterman south-paw of the Jay varsity mound staff, is shown in midst of a pitching motion in a batterymen workout at Homewood Tuesday. Rock, along with several other mound hopefuls, has been working out since March 4. The batterymen will be joined Monday by the entire squad.

Gentleman Athlete

The Sports Syndicate, led by the defensive play of Bill Dwyer, the rebounding of Stu Veiss, and the scoring of Tony Salem and Bill Willoughby, defeated Phi Epsilon Pi to gain the Hopkins Intramural basketball title.

In the 40-31 triumph Dwyer held Bill Mayer to two points, while Veiss controlled the rebounds both offensively and defensively. Salem and Willoughby each garnered 13 points for the victors.

Phi Ep won the Ping Pong Inter-Fraternity Tournament as Steve Meyer and Dave Cordish beat Jim Stuart and Hunter Farnham, respectively, of Phi Psi.

A. T. O. captured the fraternity bowling championship with a score of 1493. Tom McCann was high man with a set of 130 pins. Other members of the champs were Ron Clark, Stu Hanlein, Skip Poole, and Jack Moores.

The DU's with 1453 points finished second.

The Four Aces and A Joker lead the Independent Bowling League with a 17-7 mark. The Ants and Vets(A) each have 12-12 records in the four team league. Ed Helinski has the high game (130) and high set (332).

The Fraternity and Independent track meet will be held on April 3 and 4 at Homewood Field. Medals will be awarded to individual winners, a trophy will go to the winning 880 team, as well as the team champs. Charlie Ginsberg (Box 2011) and Bob Williams (Box 1159) are in charge of the meet.

Morrill Coaches Frosh Lacrosse

Coaches W. Kelso Morrill and Fred Smith were greeted by 30 freshmen stickmen at the first lacrosse meeting of the season held Tuesday in the Homewood Gym.

Equipment was drawn on Wednesday and the team was sent through its initial workout on Wednesday afternoon.

The coaches stated that fundamentals would be stressed, and urged the boys to refrain from drinking and smoking.

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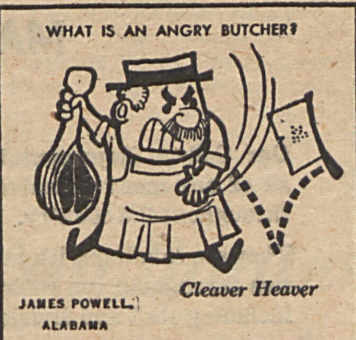
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(SEE PARAGRAPH AT RIGHT)



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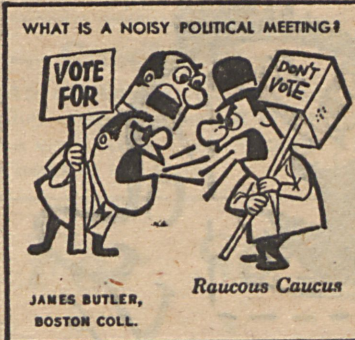
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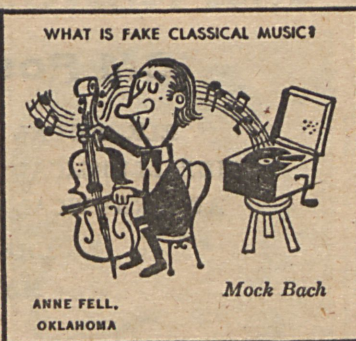
MARTHA BACHNER,
RADCLIFFE

Venice Menace



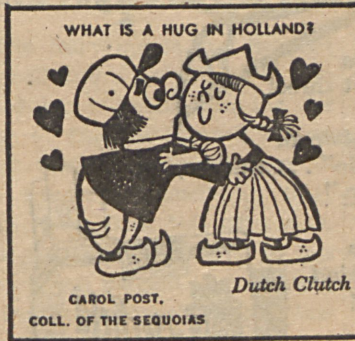
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U. OF N. CAROLINA

Sham Lamb



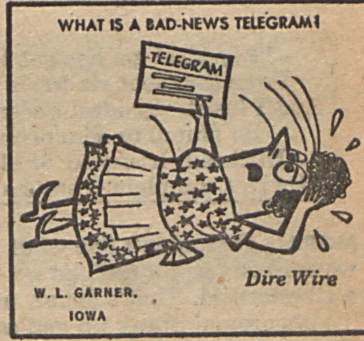
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Hopkins Bows To Mounts In Tourney

Early Blue Jay Lead Disappears As Victors Steadily Widen Gap

By STAN HANDMAKER

Although gaining an early 8-5 lead, the Johns Hopkins varsity basketball team was unable to maintain its advantage and lost 59-86 to the regular season M-D champion, Mount St. Mary's, in the first round of the Mason-Dixon Conference Tournament last Tuesday night at Loyola College.

The Mounts were led by Jack Sullivan, who was high scorer in the contest with twenty-three points. Captain Bill Civilletti, recently chosen honorable mention on the Mason-Dixon All-Conference team, was high point man for the Blue Jays with fifteen points. Jim Spitznas and Ed Bernstein followed with twelve and eleven points respectively.

Mounts Score

Mount St. Mary's opened the scoring with a field goal by Marshall. A free throw by Chuck Loughran and a free throw and a field goal by Bernstein put the Jays ahead, 4-2. Civilletti added a field goal to keep the Blue Jays on top 6-4. Hopkins looked like it might pull an upset when a pair of free tosses by Bernstein gave the Jays an 8-5 advantage.

The Mounts added six straight points, but a two-pointer by Dick Weinstein kept Hopkins within

reach at 10-11. However, the Mounts followed with two spurts of six and seven points to lead 26-13. Mount St. Mary's continued to increase its advantage and led at halftime 42-22.

Sullivan Leads

Sullivan was the leading scorer the first half with fourteen points, followed by Marshall with thirteen and Burt Sheing with ten. Civilletti with six, and Bernstein and Weinstein with five apiece were high for the Jays.

The Mounts went ahead 52-27 and never fell below this margin the remainder of the contest. Coach Ross Sachs substituted freely in the second half, and a great deal of hustle on the part of the reserves enabled them to hold their own and prevent the game from becoming an absolute rout.

6-4 Record

The Blue Jays earned their Tourney berth by compiling a 6-4 record in regular season Mason-Dixon Conference competition. The Jays defeated Ran-

dolph Macon, Washington College, and Towson State Teachers and Western Maryland College twice, while losing to Hampden-Sydney College, Catholic University, and Loyola College twice. This was Hopkins' best season since 1954, when they lost to Loyola College 66-67 in the semifinals of the Mason-Dixon Tourney, finishing the season with a 10-10 record.

JAY BOX SCORE

	G.	F.	T.
Spitznas	5	2	12
Loughran	1	1	3
Weinstein	3	1	7
Civilletti	6	3	15
Bernstein	3	5	11
Seivold	0	0	0
Webster	1	0	2
Sekulow	2	0	4
Greenberg	0	0	0
Levine	0	0	0
Morrill	1	3	5
Total	22	15	59

Jay's Nest

(Continued from Page 10)

The whole scope of minor sports, not only at Hopkins, but throughout the nation, is being placed under mounting pressure from the "kings" of the various sport seasons. Emphasis and interest is dwindling in regard to the so-called minor sport. But what determines a sport to fall in a minor category? Certainly, a member of one of these teams tries as hard to win and devotes as much interest and time to the development of skills. Are these boys to be overlooked when setting up a sports budget and program, because they do not "conform" to the dominant interest of their schoolmates?

Reevaluation

Indeed, we feel that the entire scope needs reevaluation. These sports should be given as much financial aid as student interest and participation warrants. If the tennis players have enough interest to "go out" for the team, adequate funds should assure them adequate equipment.

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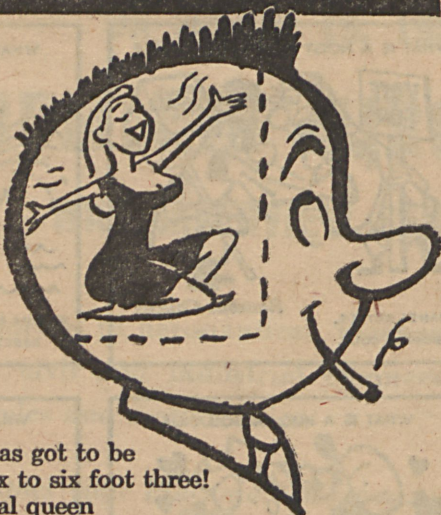
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