Architecture program revamped; pre-professional degree set up

Beginning with this year's freshman and sophomore classes, students working toward a professional degree in architecture will first have to earn a four-year "preprofessional" degree, much as has been true in the past of those preparing to become doctors or lawyers. The professional degree of bachelor of architecture (despite its misleading name) is now a graduate degree requiring two years of study beyond the undergraduate level. It was formerly a five-year undergraduate degree.

Practicality rules

"It is no longer practicable to maintain a professional program within an undergraduate frame," Dean of the School of Architecture and Planning, Professor Lawrence B. Anderson, explained Professor Lawrence B. Anderson, Dean of the School of Architecture and Planning.

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"As professional subject matter has become more comprehensive, students in architecture have found themselves increasingly crowded out of participation in the broader studies that are so strong a feature of undergraduate intellectual life," he said. "Even lengthening the undergraduate period to five years failed to solve the problem. This is the form of program we now abandon."

Areas of concentration

MIT's new four-year program leads to the degree of science in art and design. Architecture actually is only one of four areas in which undergraduates in the program may concentrate. Others are city planning, visual design, and history, theory, and criticism of the visual arts.

The Junior Prom draws 1600

By Mark Bolotin

Junior Prom '69, which attracted over 800 couples, provided a variety of entertainment ranging from a rock-and-roll blast to a roast-beef banquet.

The evening began with the formal dance in the Student Center for approximately 800 couples. Highlighting the evening was the coronation of Miss Janet P. Tande of the University of Illinois, escorted by Dr. and Mrs. Frederick Jones of Champaign, Illinois, President of the Student Council and President of the Junior Prom Committee.

In addition to the scheduled entertainment by the Ted Herbert Orchestra, "The Cloud," and discotheque dancers, Junior Prom Committee presented a mad fashion show and a short song by the Logophylls.

1969 at "Fantasticks"

The performance of "The Fantasticks," a musical play, attracted 2000 people, while about 300 attended the James Brown show later in the afternoon. "Mr. Dynamo" brought the audience to its feet with uncontrolled praise for the show. The evening's blast "The In" brought to the evening by the "Beaver Key" and "The Next of Kin" concluded the weekend's activities.

The Class of '70 gets of to faculty spotlight

Evans pioneers in science and educational research

By Dave Hayes

Thirty-two years ago Dr. Robley D. Evans established the world's first academic course in nuclear physics. Sixteen years ago he wrote the booklet "You and Your Students," which is said to have received a wider circulation than any other Institute publication.

"Evans became the third American to receive the Silvanus Thompson Medal of the British Institute of Radiology in recognition of his outstanding contributions to the science of radiation protection and safety."

California Institute of Technology and a National Association of Teachers of Science in California in Berkeley, Professor Evans first came to the Institute.

"Since then he has pioneered in the study of radiant effects on the human body. One of his earliest achievements in this field was the development in 1937 of a method of using gamma rays to measure the amount of radium deposited, in a single cell, which is still considered the most reliable available. For this work, the American Association for the Advancement of Science, in 1937, awarded him the Thimble Smith Medal, an award presented for the most important contribution to science made by an investigator under thirty-five years of age."

Established Cyclotron

In 1938 Dr. Evans established the world's first cyclotron, at MIT; it was here, under the joint direction of Dr. Evans and Dr. James Means, that radioactive iodine and radiotherapy were first applied to the diagnosis and treatment of thyroid disease.

A few years later, Dr. Evans' work was recognized by Art Kalotkin

Photo by Low Otisin

Photo by Art Kalotkin

"Fantasticks" was held in the Red Ball Room, where 2900 people viewed the delightful offBroadway play.

By Karen Wattel

The class of '69 won Field Day Friday, maintaining the third year tradition of odd-numbered classes winning Field Day two years in a row, as predicted by the Tech.

For the first time, the freshman-sophomore competition had a theme, War Games by Galactic Rivals Centered on Venus, to which all participants had to conform. Some preparations made before Field Day included building a tank with treads and a working turret and water from a two-man bed on wheels, preparing a class flag, and sewing nurses' costumes.

Beaver Key was in charge of the competition. This is the second year that the members of Beaver Key, the junior-senior honorary, has run Field Day, as it was last May that Beaver Key reorganized.

The first event of the morning was the bed marathon, in which six beds were formed around a track as many times as possible. Mounted on bicycles, the sophomore bed won 15 points for the class. The freshman bed, having escaped the side of the track, making it harder to move. By the end of the race it was being pulled along on two wheels.

The Stratton Student Center was the site of Saturday afternoon's presentation of "Fantasticks" Saturday afternoon at Art Safari to the evening's blast "The Fantasticks" Saturday afternoon at Art Safari to the evening's blast. The performance of "The Fantasticks" Saturday afternoon at Art Safari to the evening's blast took place in the evening's blast "The Fantasticks" Saturday afternoon at Art Safari to the evening's blast. The performance of "The Fantasticks" Saturday afternoon at Art Safari to the evening's blast took place.

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The Feminine Mystique—Coop-Style

The Coop is now offering a potpourri of attractive items to delight the feminine taste... and the masculine eye as well. Take a coquette's tour through the Coop's well-stocked departments and see. And while you're there, here are a few items to dawdle over along the way.

Women's Department

CHRISTMAS ROSE PIN ............ $3.00

An interpretation by Giovanni of a beautifully sculptured rose pin with a safety gold texture that complements any costume. Design accented with the story of the Christmas Rose.

FRENCH PERFUME

Two more scented fragrances from the Houses of Dior: Miss Dior for the fresh, sweet scent; Miss Dior for that hint of sophistication.

Brassiere

2 oz. $6.00, 4 oz. $12.00

Mila Dior

2 oz. $6.00, 4 oz. $12.00

JEWELRY ITEMS

Beautifully fashioned jewelry of polished and textured gold. Comes individually boxed.

Tailored in handloomed Belgian Linen with brass accents.

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Exclusive pell-point tapety, stacked heel, elastic edging for Beauty and comfort. Natural colors. Sizes: S(5-5'/2), M(6-6'/2), L(7-7'/2), XL(8-8'/2).

DARINA SLIPPERS ................. $6.00

Exclusive pell-point tapety, stacked heel and elastic edging for Beauty and comfort. Natural colors. Sizes: S(5-5'/2), M(6-6'/2), L(7-7'/2), XL(8-8'/2).

Tailored in handloomed Belgian Linen by

Necklace

in a set.

Beautifully fashioned jewelry of polished and textured gold. Comes individually boxed.

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SAMSONITE BEAUTY CASE ....... $27.95

Complete with mirror and compartmental plastic tray, the Beauty Case by Samsonite features matching washable lining, Biscay Blue. Sizes: 15" x 4½" x 0½".

The Coop also features a full line of eye-appalling ladies' accessories.

The Tech Coop

in the M.L.T. STUDENT CENTER

104 Massachusetts Avenue, Cambridge, Mass. 02138

PHOTOGRAPHIC

THE TECH COOP

TUESDAY, NOVEMBER 15, 1960

Page 2
fifteen sophomore coeds make a valiant, but unsuccessful effort in the coed tug-of-war. Their strength, however, was not as strong as their determination, as the Class of '70 coeds pulled them across the line and through the mud.

The Pavement Narrows

Eighty people filled the East Lounge of the Student Center last Thursday to meet Warren S. McCulloch at Encounter. Dr. McCulloch, who is a mathematician, psychiatrist, poet, and experimental epistemologist at MIT's Research Lab of Electronics, discussed a predictable broad variety of subjects.

Potential of computers

The discussion began with an analysis of the potential of computers. Dr. McCulloch mentioned that computers had already demonstrated supremacy in many of those processes which are essentially human (manipulation of abstractions), but that they were lacking those neural processes which we share with other animals, e.g., perception. Dr. McCulloch related this difficulty in perception by machines to one of his current projects, an automation able to recognize life on other planets. He emphasized the difficulty of designing a machine which can recognize patterns and movement peculiar to living things, and indicated that future work would be in terms of a bi-nocular scanning system coupled to a computer.

Later the discussion moved to education, and Dr. McCulloch presented the idea that many educational systems may be inadequate and misdirected. He bemoaned the tendency to give students problems for which answers are already known and devised a variety of educational conventions, including physical environment, which constrict and bore the gifted student. Inspired by experiments in which physical mobility was shown to be necessary for learning, Dr. McCulloch helped instigate some classroom changes in which better lighting and increased freedom of movement increased by 40 per cent the learning rate at MIT's school arithmetic students.

Need for mathematics

One of the major topics discussed concerned complexity in numerical systems and the need for better mathematics to analyze them. Dr. McCulloch noted evidence of multiplying of information in single nerve fibers as an example of biological complexity, and stressed the intricacy of neural net. The analysis of such complexities, he said, would require mathematics considerably more powerful than that now available, particularly a logic and calculus of three-pronged relations, which Dr. McCulloch indicated he is working on presently.

Dr. McCulloch emphasized that a mathematical system capable of analyzing large numbers of three-pronged connections could revolutionize biology, reach an

Approximately 80 people attended Thursday's noontime Encounter with Dr. Warren S. McCulloch. The noted psychologist and mathematician answered questions for over two hours during the discussion period sponsored by the Student Center Committee.

Israel to make study of 3 billion dollar plan for second Suez Canal

Encouraged by the results of research at MIT, the Israeli Government has begun a study to determine the feasibility of a $3,000,000,000 plan for Israel to outflank the United Arab Republic by building a second Suez Canal.

Passed by Meir Bats

This plan, the work of Meir Bats, a Russian-born engineer of Beersheba, who migrated to Palestine as a boy, contains three years of planning and the management of construction.

The canal would be 180 miles long, nearly twice the length of Suez. It would start at Aswan on the Mediterranean, then place the water about 50 feet above the Suez, and then emerge in the Jordan depression. The proposed canal would cut through the 2000-foot mountains near Sde Boker, and emerge at the Israeli Sea Port. The proposed tunnel passage would be at least 150 feet across and 100 feet deep to leave room for just one ship. Having never constructed anything of these dimensions before, Israeli engineers are doubtful whether the tunnel could carry the weight of the rock above.

Salt water seepage

Another less serious objection is that salt water seepage from the canal might poison land reclamation projects in the Negev Desert.

Tunnel proposed

The primary concern about the plan's workability is the billion-dollar 28-mile tunnel passage through the mountains. While most of the canal is planned to be 400 feet to allow passage of ships, the tunnel would have to be at least 150 feet across and 100 feet deep to leave room for just one ship. Having never constructed anything of these dimensions before, Israeli engineers are doubtful whether the tunnel could carry the strain of the rock above.

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The elections are over, but the political question closest to the heart of many MIT students and their neighbors still hasn’t been resolved. Nobody seems to be sure where or even if the Inner Belt is going.

It’s easy to sympathize with the residents of the Brookline-Elm Street region, who seem most likely to stand on the road’s way. There is a distinctively sickening sight of the citizens being forced out of their homes by roadways whose homes—their very homes—will endure where or even if the Inner Belt is built.

Equally unfortunate is the fact that both Cambridge and the metropolitan area administration are for the most part on the sidelines of the problem. The reluctant-consensus of these studies is that a Brookline-Elm Street route would do the least harm to the city.

Three alternate routes have been proposed by residents of the threatened area. The first was a ‘railroad’ route along the tracks just north of MIT main campus, which seemed the DPW might consider until MIT pointed out the irreparable harm it would do to the Institute, the number of jobs it would destroy, and its projected $80 million price tag. Since the DPW officially chose the Brookline-Elm Street route last spring, two more routes have been offered as potential highways. These die along Portland and Albany Streets and along Memorial Drive.

With the proposal of these two alternate routes pressure has been brought to bear by the Institute to Brookline-Elm Street residents hoping that if MIT backs a second route their homes will be saved. To pursue this goal, the local residents have accepted the aid of several engineering study after study has been made, including some effort to combine both contrast and continuous routes. No further route decision can be made without foundation. We play hard to get a student center at MIT, a combination of money and lack of students, a budget of $115,000 and outstanding debts of about $1 million. The school had to admit defeat.

The University of Oregon basketball team is getting an extremely pleasant Christmas present this year. On December 22, the team will depart for the Hawaiian Islands for an eight-day tour, during which it is hoped that they will play two games against the University of Hawaii Rainbow team and one against a selected service team.

Remember, the Tech basketball squad toured Europe this summer.

Letters to the Editor:

To the Editor:
The cartoon and editorial comment on page 4 of your November 14 issue bring out the fact that the Institute is opposing the destruction of the old buildings; and of course, the Institute did when a ‘railroad route’ was proposed. It cannot otherwise participate in destruction of the old buildings. As out- standing examples of modern campus architecture which acco- mulates the value of what is old and the new, its critics that new campus, library, that graceful accepts itself to its site in turn, is being built at Harvard, which combines both contrast and continuity to the traditional library; and of course, the student center at MIT, a contemporary structure complementary MIT’s traditional style. Unfortunately, nobody has yet de- cided what MIT and its neighbors will do all it can to ease the burden of the new highway. These die along Portland and Albany Streets and along Memorial Drive.

The Institute’s officers have decided that they don’t have or want such a right. We feel that the Institute can and should do all it can to ease the burden placed on those who are eventually going to be displaced. As a citizen of Cambridge it has a moral responsibility to aid those who will be seeking new homes in Cambridge for their families, particularly since the constant pressure of MIT students seeking places of their own to live may force them to choose the stream of traffic trying to move through it.

Over the past twenty years, engineering study after study has been made, by the Department of Public Works, by interested MIT engineers, and by private firms, all attempting to find some benign solution to the problem. The reluctant-consensus of these studies is that a Brookline-Elm Street route would do the least harm to the city.

As a corporate citizen, MIT has the responsibility to aid those who will be seeking new homes in Cambridge for their families, particularly since the constant pressure of MIT students seeking places of their own to live may force them to choose the stream of traffic trying to move through it.

We thoroughly agree with them. In our opinion, the Institute should do all it can to ease the burden placed on those who are eventually going to be displaced. As a citizen of Cambridge it has a moral responsibility to aid those who will be seeking new homes in Cambridge for their families, particularly since the constant pressure of MIT students seeking places of their own to live may force them to choose the stream of traffic trying to move through it.

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Now all of your travel arrangements can be handled just a few blocks from Tech. Heritage Travel is ready to make air and hotel reservations and issue tickets for all airlines (even if you have booked your reservation directly with the airline). Just call or drop around to our offices, we're open from 8:30 a.m. until 5:30 p.m., Monday through Friday, and until Christmas, on Saturday from 9:00 a.m. until 1:00 p.m. It's already late for reservations during the Christmas period. If you need air tickets and reservations for your trip home, better contact us soon.

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Room 403, 238 Main Street (Kendall Sq.), Cambridge
Tel: 491-0050
Ticket Delivery to all M.I.T. Offices

Prevents past problems

New Course IV program delays decision of major

(Continued from Page 1)

as in architecture, a concentration in city planning represents "pre-professional" education for the student who plans to continue on for the professional degree of master in city planning.

Because of the demands of the professional curriculum, undergraduate students in architecture and planning were previously among the few at M.I.T. who were expected from having to meet all of the Institute's core requirements for science. Now, in addition to the Institute's generalized sequence in science and the humanities, students in this four-year program will also take a number of interdisciplinary courses bordering on their principal areas of interest. "Economics of city planning," for example, is now a required "pre-architecture" course.

Another key feature of the new program is that students now may wait until the beginning of their junior year to declare a major. Formerly, students in architecture who delayed their decision until late in the freshman or sophomore year found they had already lost precious time in the pursuit of their professional degree.

"The fixed curriculum presuppositions that before entering college the student has selected a track leading directly to a specific career," Dean Anderson said.

"Young people today are not that decisive.

"While it is true that gifted designers often declare themselves early, a large share of the most talented undergraduates are either not immediately vocation-motivated or are searching for some new combination of disciplines that will furnish greater scope."

City planning

The problems for city planning students have been a little different from those in architecture. City planning at M.I.T. has been a pre-professional program since it was established in 1930. It has become increasingly apparent, however, that two years of graduate study was not enough for professional competencies. With the new program, city planning courses are now taught at the undergraduate level and students no longer need to plunge into graduate work without prior training in the field.

Those who choose the areas of visual design will develop competence in the use of color, texture, patterns and the visual quality of materials. Some will pursue the arts of sculpture, painting and photography. Others will concern themselves with graphic composition and the achievement of creative solutions to problems in visual communication.

Students concentrating in history, theory, and criticism of the visual arts will be concerned with the interaction of history, criticism, and practice in either architecture or painting and sculpture. They will share many courses with students in the allied areas of architecture and visual design. Many will continue on for advanced degrees in the history of art or professional work as historians, critics, museum directors, or curators.

A major in city planning

"Scientists and artists seek the same principles of unity and organization, though in different ways and for different purposes," said Dean Anderson. "The functions that both perform in perceiving rhythm, pattern, proportion and form are often parallel.

"As an integral part of a scientifically oriented university, we are able to nurture interactions between visual thinking, mathematics and logic, the physical and social sciences and the humanities."

JP blast 'successful'; similar events likely

(Continued from Page 1)

"went over quite well," should pave the way for similar dances in the future, according to Jay Hammerness, Assistant Dean of Student Affairs.

Credit given committee

Student Ways and Activities Committee, President, commended the members of the committee for the weekend, explaining that they "got credit for making the weekend what it was."

The weekend program was conducted at near break-even.
WHAT'S GOING ON

Last week, James Hill, Harvard student, answered a letter from Robert W. Galvin, Motorola Chairman, which asked: "What's wrong with business?" Mr. Hill raised a number of trenchant issues and also hobbed his ambitions with bureaucratic lethargy. This and similar discussions will be published in newspapers on over 20 campuses. The exchange is part of a unique dialogue between campus and corporation—a dialogue that will continue as long as there are points to be made. This and similar discussions will be published in newspapers on over 20 campuses. Hopefully, this exchange of ideas will help resolve existing differences and serve as a vehicle for mutual respect and understanding.

Dear Mr. Hill:

You have made quite an indictment. Unfortunately, I believe that many young men share your view about business. This bothers me.

You say business does not recognize young ability. If you mean "some businesses don't use the talents of all young men," I'll agree. My advice for the individual lost in the shuffle would be to confront his boss and ask for a straight-forward appraisal. Ask for his reasons. They may be very valid ones. If they are not valid . . . and the boss seems unwilling to change the situation . . . then I say the young man should take his talents to one of the many forward looking companies who are eager to give him opportunity commensurate with his potential.

I say the same to you. Dig a little before you take a job in any organization. Ask how many men between 25 and 35 have responsible positions. Evaluate the company while they evaluate you. Business—modern business—must have an input of young men of ability to survive and grow. Keep in mind that there are desirable and undesirable corporations. Growing and static corporations—just as there are university departments and government agencies that have vitality—and some that don't.

Show me the company (or law firm or university) with, what you call, "organizational inertia and bureaucratic lethargy." I'll show you one that is dying on its feet.

With the tremendous demands from all segments of our society, no company can afford to ignore talent—young or old. In one division of Motorola, for example, we have young men in their 20's working side by side with more experienced employees in developing and marketing products for hospitals, sophisticated police communications systems, traffic control, commercial and closed circuit television. These men have both responsibility and authority. Some are engineers, others are in sales, planning and marketing. I can assure you, progressive businesses need every ounce of excellence they can find.

Let's look at what takes place when a young man begins a career—almost any career.

The "recently graduated" lawyer or doctor begins, not by immediately taking a command position, but by involving himself in a period of learning, exposure, training—call it what you will. He's learning the ropes. Why should such a "learning" process be frowned on in business? The young lawyer may spend most of his first two or three years of practice in the law firm's library.

The young doctor becomes an intern and then resident—spending years as a "junior doctor." Even the specialist is still "junior" on his first staff appointment.

During this period, whatever the career, it is the individual who determines the rate at which he sees action. The rate at which he is ready to handle responsibility. The rate at which he gains authority.

This early stage is obviously a most important time. In business, it provides the opportunity for the man and the company to objectively view each other. To evaluate. It permits the individual to realistically judge his own abilities—under working conditions. He can appraise just how smart he is not only how smart he thinks he is. It tells him what he can really do.

What happens during this period and thereafter; in business or in any profession, is up to the man. He must make the waves. He should be encouraged to make waves. His college degree is no more a guarantee that he will be a good businessman than an M.D. or LL.B. guarantee a good physician or lawyer. Recognition? His own motions and judgments will establish his personal identity in the corporate crowd. Men in motion, with sound ideas, imagination, and enthusiasm—are not gray or faceless, nor can they be made so. It would be a shortsighted corporation that would try.

In many areas, today's business needs today's young men—25 and 30 year old decision makers. Let's discuss this further.

Robert W. Galvin,
Chairman, Motorola, Inc.
We set out to ruin some ball bearings and failed successfully

The Bell System has many small, automatic telephone offices around the country. The equipment in them could operate unattended for ten years or so, but for a problem.

The many electric motors in those offices needed lubrication at least once a year. Heat from the motors dried up the bearing oils, thus entailing costly annual maintenance.

To stamp out this problem, many tests were conducted at Bell Telephone Laboratories. Lubricant engineer George H. Kitchen decided to do a basic experiment that would provide a motor with the worst possible conditions. He deliberately set out to ruin some ball bearings by smearing them with an icky gunk called molybdenum disulfide (MoS₂).

Swank! This solid lubricant, used a certain way, actually increased the life expectancy of the ball bearings by a factor of ten! Now the motors can run for at least a decade without lubrication.

We've learned from our "failures." Our aim: investigate everything.

The only experiment that can really be said to "fail" is the one that is never tried.
The Gondoliers, a comic opera by Gilbert and Sullivan, contains all the plot complexity that has made its shows so famous. Marco and Giuseppe Palmieri, gondoliers in Venice, have been married to Teresa and Gianetta for only five minutes when the Grand Inquisitor, Don Alhambra, enters to announce that "one of the two, it is not quite clear," is actually the King of Barataria, and not the mar-ried Palmieri. The King was ab-ducted when a baby and only recently had been traced to Venice.

What he does not tell them is that whichever one it is was married in babyhood to Casilda, the daugh-ter of the prosperous (and poor!) Duke of Picco-Torso. To add to the complexity, Casilda is in love with Luis, an unimportant drum major in her father's retinue. Don Alhambra promises to look for the nursemaid who will be able to marry to Tessa and Gianetta simultaneously.

The concert was the second in a series held in Kresge and sponsored by the MIT Department of Humanities. The first featured modern quartets, the current operatic fad, centering as it did on one composer, helped round out the picture of the twentieth-century operatic tradition.

The Quartet No. 6, written 31 years later, shows the influence of the neo-classical school in its form. Four slow (Meno) sections alternate with three faster ones: a graceful waltz, an impressionistic ditty, and a march, and a witty burletto, a sort of drunken scherzo in duple time.

The musicians outdid themselves in the interpretation of the changing moods of this piece. The Quartet No. 4 is at the same time a type of piece which, at the hands of sensitive interpreters, almost inevitably produces a modern score with a slightly experimental flavor, an avant-garde but a bit more soph-isicated than the usual musical fare. The performance amply illustrated the fine expressive ability of the performers, almost a series of virtuoso performances, fulfilling the expectations of the audience.

The Concert was the second in a series held in Kresge and sponsored by the MIT Department of Humanities. The first featured modern quartets, the current operatic fad, centering as it did on one composer, helped round out the picture of the twentieth-century operatic tradition.
movies... 'Hawaii' suffers in film adaptation

By Rick Klein

'Hawaii' is the story of an end as well as a beginning, of a white man's civilization in our puppet state. In 'Hawaii,' Max Von Sydow plays a young New England judge who is sent to Hawaii with others to treat the insurrection among the native heathens. Before the journey, the young judge, Abraham Hale, marries Jeanette Brennley, played by Julie Andrews. In the Hollywood film, which-marries herself to a man in a uniform of tradition by wearing for some few minutes.

Contrasting characters

On the voyage to Hawaii the actor finds out what it means to be a foreigner. Von Sydow, starting, Julie Andrews is a real American wife, and Von Sydow is a fire and brimstone preacher, stained in his morals and his belief of the Gospel. One of the rare, exciting moments of the film occurs on the voyage when the ship travels around the treacherous Cape Horn and nearly crashes on the barbed rocks. A good part of the film deals with young couple in love and the beginning of the passions in order to gain a football and eventually some...

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The THE CHIEF

Hilarious, Theatrical, Fun!

No. 22, Free Press, Nov. 19, 1976
music... '68 presents the inimitable James Brown

By Jack Bandore

The James Brown Show is an experience which cannot be described in precise terms. An attempt to pigeonhole the James Brown phenomenon as a clash of rhythm and blues, soul-sound, jazz, or the like, must prove a failure and academic venture. Even those hippest to these scenes must concede that the James Brown bag is truly unique.

Brown makes new fans. The James Brown Show, performed Saturday as part of a Junior Prom, strengthened the devotion of former fans and made many new devotees. The essence of James Brown is his performance—this is where the inimitable artistry of the man and his group is really displayed. To those who had never seen a performance, the experience was totally new and amazing. For the James Brown Show is an emotion-packed experience, and the effect he produces on an audience is little short of startling.

James Brown began with his latest hit, "Mr. Dynamite," which seemed a little innocuous considering the audience, but by the end of the show, the audience had lost its identity of the MIT foreign university are worth a visit. Since MIT does not operate its own foreign university, eleven MIT students have spent a semester abroad. Also on hand will be several students interested in spending a semester abroad. These students are in the process of arranging an academically profitable year for each individual is worth a visit. The MIT foreign university are worth a visit. Since MIT does not operate its own foreign university, eleven MIT students have spent a semester abroad. Also on hand will be several students interested in spending a semester abroad. These students are in the process of arranging an academically profitable year for each individual is worth a visit. The MIT foreign university are worth a visit. 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Evans spearheads radium research

For his application of radiative isotopes to wartime problems, he was honored by many institutions, including the National Academy of Sciences, the American Physical Society, and the American Institute of Physics. He was also elected president of the Radiological Society of North America.

Evans' research is an example of how scientific progress can be both transformative and incremental. His work on radium allowed for the development of medical treatments and he was a key figure in the transition to a nuclear age.

The impact of Evans' work is reflected in the many awards and honors he received throughout his career. He was a member of the National Academy of Sciences and the National Academy of Engineering, and he received the National Medal of Science and the John J. Abel Award for his contributions to science.

Evans' legacy is not just in his scientific work, but also in the influence he had on his students and colleagues. He was a mentor to many young scientists and his influence can be seen in the work of those he taught.

In conclusion, Alfred E. B. Evans was a true pioneer in the field of radiology and his work has had a lasting impact on the scientific community. His contributions to medicine and the advancement of knowledge will continue to be remembered for years to come.

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Halfman on leave in India to aid technical institute

By Jolin Foran

Four MIT professors discussed "What's New in Vietnam" Monday afternoon, November 7, in the Student Center Mezzanine Lounge. After a short film, the four men presented their views on the US policy of controlled escalation.

The presenters were: Salvador Lurita, Sedwick Professor of Biology; William Schirmer, Professor of Electrical Engineering; Cyrus Levinthal, Professor of Biology; and Philip Morrison, Professor of Physics. The four men have long been actively concerned with the morality of the war in Vietnam.

Lurita starts discussion

Professor Lurita led the discussion by introducing the film. He said, "The war must be discussed in many ways: American policy in Vietnam—where it is going, its stated and unstated purposes—and the effects on both the U.S. and the U.N."

"Time of the Locust"

The film, "Time of the Locust," produced by North Vietnamese, Japanese, and US sources, was assembled in Europe, and during the United States by the American Society of Friends. It highlights a pattern of the war "which is universal, on individuals, rather than the problem of complex strategies."

After the film, the professors outlined their viewpoints and answered questions from the audience. Professor Morrison reviewed the facts of the US bombing campaign in North Vietnam. After receiving aid from the Soviet Union, he said, North Vietnam now has a good deal of well distributed power, most of which is used for direct aircraft installations. In its 800 overflights a day, the US is really not getting the effect it desires.

In addition, floating bridges and a system of ground shelters get supplies through.

Rumbling "unjustified"

"There is behind this," Morrison noted, "one grave question raised. There is a third motive which has its place—that 300 miles across the seventeenth parallel is China." The US, he argued, "is engaged in a military policy which assumes the military interests by preparing for a future air war with Red China. Our bombing is, however, "without immediate military value," and thus "is unjustified."

The US is practicing a "policy of escalation," while China, provides "a policy of containment." One important question involved evasion with the question of "where do we go from here?" The question was asked," "What can we do?" The question was then answered," "We are "tired of picking.""

Discuss new developments

Professors hold Vietnam seminar

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Future seen for electric car

By Leonard Shaffer

The enthusiasm of electric car owners is frequently expressed in terms like 'the future is now'. However, the electric car, as a mass-produced automobile, has yet to reach peak efficiency and reliability. The reasons for this are largely technical, but there are also economic and social factors that contribute to the slow progress of the electric car.

The electric car is a complex machine that requires a large number of components to function properly. The development of these components, as well as the design of the car itself, has been hindered by the lack of funding and the reluctance of automakers to invest in new technology. The electric car is also a relatively new concept, and it will take time for people to develop a trust in the reliability and performance of electric vehicles.

The economic factors that have contributed to the slow progress of the electric car are primarily related to the cost of production. Electric cars are currently more expensive to produce than gasoline-powered cars, and this cost is passed on to the consumer in the form of higher prices. The high cost of production is due to the fact that electric cars require more sophisticated components, such as batteries and motors, and these components are currently more expensive than their gasoline counterparts.

The social factors that have contributed to the slow progress of the electric car are primarily related to the lack of infrastructure. The development of electric cars requires the development of a charging infrastructure, and this infrastructure is currently not in place in many areas. As a result, electric car owners are often faced with the problem of finding a place to charge their cars, which can be a limiting factor for their use.

In conclusion, the future of the electric car is promising, but it will take time for the technology to reach peak efficiency and reliability. The development of electric cars will require a significant investment in research and development, as well as a commitment from automakers and consumers to support this new technology. The social and economic factors that have contributed to the slow progress of the electric car will need to be addressed in order for this technology to reach its full potential.
Yacht research discussed
By Carson Agnew

A one-day symposium on sailing yacht research took place Wednesday in Kongreg. Sponsored by the Department of Naval Architecture and Marine Engineering, the gathering attracted 287 people from as far away as England.

The meeting consisted of two sessions, one in the morning and one in the afternoon, a tour of the MIT yacht research facilities, and an informal evening discussion following dinner at the MIT Faculty Club.

Rake,3 Keel featured

The morning session, moderated by William A. Beiler, Curator of the Hart National Museum, included primarily with research and designs in yacht masts. Following an introduction by Dr. Alfred H. Keel, Head of the Department of Naval Architecture and Marine Engineering, a paper on 'Yacht Hull Research' was presented by Dr. Justin K. Kerwin, Associate Professor of Naval Architecture. He was followed by Peter DeSaix, Chief of the Ship and Yacht Division of the Davidson Laboratory, Stevens Institute of Technology.

After a brief coffee break, a paper on 'Stability and Control in Winged Boats' was given by Dr. J. Nicholas Newman of the Navy's David Taylor Model Basin. This test facility was the one used for the tests made on a full-sized yacht, Annapolis, for the report which appeared in Scientific American.

Research in England

The next paper, on 'Yacht Research in England' by Paul Spens, Fellow of the Department of Aeronautics and Astronautics at Southampton University, England, was presented by Peter W. Brown, Manager of the Marine Craft Development Group at the Davidson Laboratory at Stevens Institute of Technology. The meeting then broke up for lunch at the Varsity Club.

Varsity Club sets blast on Saturday

The Varsity Club will sponsor a dance Saturday for all letter winners, including those lettering in the fall season. It will be held at Delta Upsilon fraternity, 526 Beacon St., from 8 to 12 pm. Refreshments will be served, and the Varsity Club will provide live entertainment.

For George Sullivan, good sports reporting starts with a Parker pen

George Sullivan, sports reporter for the Boston Traveler, has been covering Harvard-Yale games since 1955. Mr. Sullivan's recently completed book, "The Flying Fisherman" the story of Godabot Gaddi, will soon be available at the new Coop Book Store.

"I always use a Parker pen when I cover an important sports event," says George Sullivan. "The notes I take during the game are of utmost importance to the accuracy and color of my story. I can't afford not to have the best!"

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Frosh sports

Wilson boosts harriers to sixth in New Englands

By Stan Rash

Tech's frosh cross-country team placed sixth in the New England Cross-Country Championship held November 7 at Franklin Park. The team championship was won by Providence and Holy Cross.

Ethiopian shutters set back 

By Jim Yasukadan

Coast guard wins regatta with Tech sailors fourth

The Coast Guard established a win over Tech in Saturday's New England Intercollegiate Cross-Country Championships Monday, November 7. Providence was second, with MIT finishing third in 19:42.

Despite the loss, Tech's frosh harriers did not quality for the finals.

The regatta was set up on a team racing basis whereby the school with the highest point total for each race won that race. Four boats sailed for each school.

For MIT Ch'e; Osborn skippered and Jacques Ferreira '67, a crewed the first boat. JRe Ferreira '67, his first appearance all season, winning greatly, and he followed Kozu's 23:26. Pete Peckarsky '68 finished with a time of 24:53, followed by a classic try by the Techmen. In a display of in-}

By Jim Tech-Weber

Ruggers run over Fairfield, 15-6

By Jim Tech-Weber

Play in a traditional rugby—rain on the Tech ruggers held up their winning streak. Taking advantage of their superior bloody-mindedness, the Techmen, with the ball seldom being allowed to get away, were successful in knocking their opponents off their feet, and streamlined the squad before spring. The forwards of grandeur—roughly equivalent is in proportion to that of the team's success, the Techmen ran over Fairfield, 15-6.

The first home match of the season was first Saturday at 3:30 pm. The forwards and the backs are well for next year. Both teams have stabilized and are beginning to play as teams at last.

The first home match of the season was first Saturday at 3:30 pm. The forwards and the backs are well for next year. Both teams have stabilized and are beginning to play as teams at last. Tech found MIT ahead 9-0, following a classic try by the Techmen. When the wind blew and the ball was away. Walt Maling '69, Fiji backcourt ace, of Burton defender Tom Scholz. The Safari of Providence was defeated 45-31. The Safari of Providence was defeated 45-31. The Safari of Providence was defeated 45-31. The Safari of Providence was defeated 45-31. The Safari of Providence was defeated 45-31. The Safari of Providence was defeated 45-31. The Safari of Providence was defeated 45-31.