Welcome to the California Tech
Caltech Institute of Technology
Volume LIX
Pasadena, California, Thursday, February 20, 1958
Number 17

Godfrey, McClure, Owings Vie For ASCIT President

CANDIDATES DEBATE AT ELECTION FORUM

Candidates for the top four ASCIT positions will engage in a round-table debate before the entire student body Sunday evening under the auspices of the California Tech. The round-table will be held in Throop Club beginning 8 p.m. During the debate, each candidate will have an opportunity to present his views on subjects which are likely to be of interest to the student body. Following the debate, the audience will be asked to submit their votes for the positions of President, Vice President, Secretary, and Treasurer.

Dabney Hosts Bridge Township

The National Intercollegiate Bridge Tournament will be held Thursday through Sunday, February 27, at the Dabney House. There is a fee of 75 cents per contestant. It will be a duplicate tournament as usual. The eligibility rules are the same as for Intercollegiate sports.

Dan Mack is the tournament director. To get information, see him or Russ Fitzar.

Caltech is one of over 100 schools competing. The results are mailed to Geoffrey Mott-Smith, author and director of bridge bridge authority, who scores the hands and determines campus, regional, and national winners. The campus winners' names, both the East-West and North-South pairs, are inscribed on a plaque.

The tournament is sponsored by the Games committee of the Associated Students in the Union. It is sponsored by the Associated Students in the Union.

Dabney Bridge

With regard to the nation's possible space agency, Nixon hinted that it would be free of military control, but added that no decision had yet been made. He drew applause with the statement that, "It is important to our foreign policy that this concept be shifted to science for peace rather than science for war."

Nixon's visit was part of his current tour of the home states. He mentioned his attendance at nearby Whittier College, and drew laughs with references to his college days.

The speech was arranged by President Lee A. DuBridge, who introduced the Vice President.

Negro Leader Visits Tech: Discusses Racial Conflict

Rev. Martin Luther King, Jr., Negro Baptist minister and leader of the protest Negro groups in last year's Montgomery, Alabama, bus strike, will come to Caltech next Tuesday, Wednesday, and Thursday. King's visit is the second of the ASCIT's plans to revitalize ASCIT government. In the last few weeks such sentiment was mobilized effectively for the first time in the last few years of ASCIT history, culminating in a successful amendment to reorganize ASCIT.

The reason for the visit is the increasing number of students who are interested in the civil rights movement. King plans to talk about the importance of non-violent protest and the role of the student body in the struggle for equality.

TRIP CANCELLED

The ESE 4 field trip to the Sundray Cell Welding Plant has been cancelled by the Board of Health until such time as their turbulent conditions can be repaired.
Editorial

Pasadena Meets Sputnik With Traffic Light Policy

Hardly a day goes by now that the U.S. satellite is up when there isn’t something in the Star News about how it was made IN PASADENA or about how somebody or other is LAUDING us for this LOCAL PRODUCT and even sometimes how lucky and proud Pasadena is to have such a GREAT INSTITUTION as Caltech all for its own. And they knew all the time that the satellite is going to make ENTRANTS like the Freshman dormitory system to be the subject of a student point of view.

The building of new student housing facilities, whether they be three infrequent student dorms or one two Freshman dorms is going to change significantly the character of the student housing system. A person who thinks that he wants to travel about the system “just as it is” cannot have his way. The proper way to evaluate both systems is to try to predict the kind of student life which will result in each case, and then to choose which—ever seems to be the better plan. Since I entered as a freshman there has been a steady decline in school loyalty. During rotation year, I was told by two houses, “In matters of politics, athletics, and student activities, we feel ASCIT, or the college, should be first, and the house should be second.”

I have been told by several freshmen that no such statement was made during rotation year. In addition to strengthening school spirit, the Freshman dorm system would presumably strengthen class spirit at the expense of house spirit. Is this really bad? Many of the seniors I talked to agreed with me that it is not so bad to think that they knew more of the members of their class. And if some of the selfishness which appears in HUC meetings were reduced, would this be a loss?

I feel that the greatest advantage of the Freshman Dorm system would be with the strengthening of “house individuality.”

Doctor Harvey Eagleston, who has watched the houses since their formation, says, “The student houses have lost most of their individuality.” One big reason for this loss of individuality has been a change in the policy of assigning freshmen to the houses. Once an attempt was made to assign freshmen to the houses where they would probably be best. Now the policy is to assign men to the house on a random basis, or even in an attempt to de-emphasize any existing house personality. The great majority of the freshmen stay in the house they start in, and this method has proved quite effective.

A Freshman Dorm system would give the freshman a good chance of finding the house which would suit him. It would pave the way for the strengthening of house personalities and house traditions. But with seven houses, what chance would there be for individual house characteristics to form?

One thing I would insist on would be including the freshmen in the house social programs.

This could be done on a rotation basis. The expense of freshman participation could be met by a fee similar to house dues, which would be divided between the five houses.

The academic question alone demands that we give serious consideration to the Freshman Dorm system. One thing is certain: student opinion will exert a heavy influence on the committee which makes the decision. If both systems are carefully and impartially considered by the students, and an attempt is made to choose the plan which is really the best, then nothing more can be done.

Ted Gabker

Editor

As a matter of fact, our relationship with the Crown City has been eminently amiable in most fields, mostly since we never come in contact with them in most fields. One thing that we don’t exactly understand, however, is the new traffic light on California Street at the entrance to Tournament Park, because we know that the city wants to reward our noble efforts, and we are truly honored, but, ungratefully as it may seem, there has been talk lately that the new light is actually not even as good as the old one. Could this be on oversight on the part of the City Fathers?

The truth is, the light takes so long to change after the button is pushed that some people have taken to ignoring the whole thing and crossing whenever they feel like it. Formerly the button, when Nixon talked in Tournament Park, several hundred students and Institute personnel impatiently waited around on one side of the street so long that they finally decided to cross against the light. There ensued a chaotic jumble of pedestrians and cars, using the intersection more or less at random.

Now of course the city could station a full-time policeman to give the button the pay button, but we respectfully submit that it would be easier to put the old light back, or better yet to modify the new one so that it changes as soon as the button is pushed, and stay away from it. In time there should be some arrangement such that cars trying to leave the parking lot can trigger the light, since at present the driver has a choice of either getting out of the car and pushing the button or else going against the light.

Every time someone loses two minutes waiting at the intersection, the men in the Kremlin rejoice as still another blow is struck to our national defense effort. We are depending strongly on the loyal citizens of Pasadena to come through in this crisis.

Letters To The Editor

Receive your MS in Electrical Engineering, Mechanical Engineering or Physics at RCA’s expense, through the RCA Graduate Study Program. At the same time, you’re beginning your RCA career as an engineer on a full professional level, getting a head start in the field you prefer. RCA pays the full cost of your tuition, fees and approved texts, while you’re beginning your professional level, getting a head start in the field of your own choice. When an RCA engineering management representative enrolls you in a specific time for your interview.

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Ed. Note: Members of at least one house definitely claim to have stressed “ASCIT first” during rotation. It should be noted that graduates of other schools often find their class-loyalties empty and meaningless, based on a mutual curriculum instead of mutual interests. It is also news to us that the policy of fitting freshmen to houses has been reversed.

The reference to an “academic question” is puzzling. It is assumed that freshmen will learn more in an exclusively freshman group than in a mixture of all classes.

Ed. Note: As an RCA Engineer
REPORT OF THE EPC ON PHYSICS OPTION AND COURSES

The EPC felt that there are certain facets of the Caltech physics course deserving of special commendation. In the wide range of subjects, the elective subjects allowed and available, and the use of such experimental teaching techniques as are employed.

In the general field of instructional methods we would make the recommendation that the method of combining periods lie in the hands of individual teachers and more thoroughly by working together in small groups, and (b) the presence of an instructor provides a source of immediate assistance when a blind alley is reached, the prevention of much wasted time.
Martin Luther King, Jr.: Non-Violent Resistance

"We Must Not Try to Defend Our Position By Methods That Contradict the Aim of Brotherhood"

Across the South, since that December day in 1955 when the Negro has boycotted was established in Montgomery, Alabama, Negro leaders have looked toward this city for advice and counsel on how to gain the desegregation that the U.S. Supreme Court has guaranteed them.

The man whose word they seek is not a judge or a lawyer, or a political strategist or a flaming orator. He is a scholarly 28-year-old Negro Baptist minister, the Rev. Martin Luther King, Jr., who in little more than a year has risen from nowhere to become one of the nation's remarkable leaders of men.

In Montgomery, Negroes are riding side by side with whites in integrated buses for the first time by court order. But their presence is accepted, however reluctantly, by the majority of Montgomery's white citizens because of Martin King and the way he conducted a year-long boycott of the transit system.

Michael Luther King, Jr., was born in Atlanta, Ga., in 1929 to the Rev. Michael Luther King, pastor of the Ebenezer Baptist in that city. His mother was a school teacher before her marriage. Young "Mike" learned segregation when he was six years old when a white playmate, the son of a grocer, was prohibited from playing with a Negro boy. Mrs. King then told Mike about segregation, but she insisted that although this system existed, he should never feel inferior. His father then told him about Martin Luther, the great leader of the Reformation. "From now on, you and I are going to be named Martin Luther King," he said.

From his earliest memory, Martin King has had a strong aversion to violence in all its forms. For months Martin Luther King has unflinchingly faced the possibility of violent death for the sake of avoiding violence.

Can Not Retreat

"We Southern Negroes believe that it is essential to defend the right of equality now. From this position we are not going to retreat. Fortunately, we are increasingly aware that we must not try to defend our position by methods that contradict the aim of brotherhood.

"We in Montgomery believe that the only way to press on is by adopting the philosophy and practice of non-violent resistance. This method permits a struggle to go on with dignity and without the need to retreat. It is a method that can absorb the violence that is inevitable in social change whenever deep-seated prejudices are challenged.

The shabby, overcrowded Negro schools in Atlanta were no match for the keen, probing mind of Martin King; he went through high school in two years, was ready at 15 for Atlanta's Morehouse College, one of the South's Negro colleges. At Morehouse, King worked with the city's Intercollegiate Council, an integrated group, and learned a valuable lesson. "I was ready to resent all the white folks. But as I got to know the white people, my resentment was softened, and a spirit of cooperation took its place. But I never felt like a spectator in the racial problem. I wanted to be involved in the very heart of it."

As a child, King wanted to be a fireman. Then, hoping to treat the Negro's physical ills, he planned to become a doctor. Becoming more deeply engrossed in the problems of his race, he turned his hopes to the law, "because, I could see the part I could play in breaking down the legal barriers to Negroes." At Morehouse, he came to the final resolution.

Intelectual Religion

"I had been brought up in the church and I knew about religion," King says, "but I wondered whether it could serve as a vehicle to modern thinking. I wondered whether religion, with its emotionalism in Negro churches, could be intellectually respectable as well as emotionally satisfying." He decided it could, and that he would become a minister.

King's Morehouse record (major in sociology) won him scholarships from three semi­naries. King chose Pennsylvania's Crozer Theological Seminary.

For the first time in his life, King found himself in an integrated school; he was one of six Negroes among nearly 100 students at Crozer. Fearful that he should expose himself to possible studies, King pored over the words and works of the great social philosophers: Plato, Aristotle, Locke, Hegel (whose progress-through-pain theories are still prominent in King's thinking).

Above all, he read and reread everything he could find about India's Gandhi. "Even now," says King, "in reading Gandhi's words again I am given inspiration. The spirit of passive resistance came to me from the Bible and the teachings of Jesus. The techniques of non-violence came from Gandhi."

Extraordinary Student

King's Crozer career was extraordinary. He graduated first in his class, was named the seminary's outstanding student, was president of the student body (the first Negro so honored), and earned a chance to go to Boston University for his PhD. While in Boston, he also took courses in philosophy at Harvard University.

His Boston interests were not exclusively academic. He had met Coretta Scott, a pretty and talented soprano and a graduate of Antioch College, who was doing graduate work at New England Conservatory of Music. They were married in June, 1953.

Although he had been ordained a minister in 1955, he did not have a parish of his own until called to the Dexter Avenue Baptist Church in September, 1954. He encouraged his parishioners to take an active interest in community problems; he organized a social and political action committee within the church and urged every member to become a registered voter and also a member of the National Association for the Advancement of Colored People.

Get Up and Stand

Martin Luther King suddenly came into national prominence in December, 1955. On the evening of Thursday, December 1, 1955, a Montgomery Lines bus rolled through Court Square and headed for its next stop in front of the Empire Theatre. Aboard were 24 Negroes, seated at the rear and whites from the front, but on a first-come-first-served basis.

Mrs. Rosa Parks, a seamstress who had once been a local secretary for the National Association for the Advancement of Colored People, did not wish to give up her seat. She refused. Overnight the word reached the various Negro neighborhoods: support Rosa Parks; she refused. The next day, December 2, the bus line was closed. On December 5, 1955, Dr. King was arrested after the boycott had gone on for six days. He was arraigned, as he had expected, and was freed on bail.

Returning to the church, he got his parishioners to take an active part in the boycott. The techniques of non-violent resistance came to him from the Bible and the teachings of Jesus. The techniques of non-violent resistance came to him from Gandhi."

The boycott was on its way. It was to last 381 days, with Negro leaders in the forefront of the battle for civil rights. The boycott was to end with a settlement which was a victory for the Negro. The boycott was to end with a settlement which was a victory for the Negro. The boycott was to end with a settlement which was a victory for the Negro. 

"Now that the National Association for the Advancement of Colored People has achieved what it sought, the King family is going to New York."

As a result of his leadership, King was given more and more public recognition. He was chosen to be the keynote speaker at the 10th anniversary of the March on Washington in 1963, and he was chosen as the recipient of the Nobel Peace Prize in 1964.

Martin Luther King continued to work for civil rights and racial equality throughout his life, and he remains an inspiration to many people around the world. His legacy continues to live on today, as his message of non-violence and equality continues to be observed and respected.
Montgomery Bus Boycott Led King to National Prominence

(Continued from page 4)

ous treatment; Negro drivers would ride the lower levels of the buses through predominantly Negro areas.

Ability Evident

To direct their protests, the Negro ministers decided to form the Montgomery Improvement Association. And for president they elected Rev. Martin Luther King, Jr., a relative newcomer whose ability was evident and whose good nature made him above all the old foes. That night, at a hastily called meeting, more than 5,000 Negroes approved the ministers’ decisions. At every turn, King out-gen- eraled Montgomery’s white of- ficials. Example: Officials went to court to have the M.L.A.’s assets frozen, but King had the funds scattered around in out-of-reach banks that included half a dozen in the North.

The Negroes stood firm, and white complacency turned to fury. Mayor Tatum Gay ordered a curfew, and his city commissioners made a decree which empowered him to send the white Citizens’ Council. Police harassment followed; King was arrested for speeding; Negro car pool drivers were hauled into court for civil violations. Up to 25 profane telephone calls a day came to the King home.

Massive Retaliation

At 9:15 one night two years ago, he was speaking at a mass meeting; Coretta King was talk- ing to a friend in the living room of the parsonage. She heard a sound on the porch and thought it was just a child knocking. She found a bomb on the porch and thought it was a white bomb. Some Negroes had come to the neighborhood in the hopes of avoiding the violence around the King home during that period. She and the friend moved to the back room to continue the conversation—and a dynamite bomb went off, filling the vacant living room with a hall of broken glass.

Despite the bombing, King still impressed the 5,000 Negroes who had united to boycott the buses to live up to their words. “We believe in law and order,” he told them, “Don’t go get your weapons. He who lives by the sword will perish by the sword.”

On February 1, 1956, five Mont­gomery Negro women filed suit in the U.S. District Court asking for an injunction ending Montgomery’s year of the boycott, but King reached beyond laws and words, beyond violence and threats, to win hearts and challenge all people—with a spiritual sword that aspired to even greater promise than preachers of mind’s man. He struck where an attack was least expected, and where it hurt most: at the South’s Christian conscience.

Most of all, Baptist King’s im­ pact has been felt by the indu­ strial white clergy who could help lead the South through a peaceful and orderly transition period toward the integration that is inevitable. Explains Bap­ tist Minister Will Campbell, one­ time student at the University of Mississippi, now a Southern official of the National Council of Churches: “I know of very few white Southern ministers who are troubled and don’t have admiration for King.”

Legal Victory

An injunction ending Mont­gomery’s bus segregation was issued by a three-judge Federal Court on June 19, 1956, but was suspended pending appeals. The Supreme Court upheld the ruling on November 12, and refused to hear their appeal. The injunction was served on state, city, and bus company officials in Montgomery on December 20, 1956. Following this action, Negro­-held mass meetings and called off their boycott of the buses.

When interviewed on Feb­ ruary 10, 1957, on the NBC-TV pro­ gram “The Open Mind,” King told interviewer Richard D. Heff­ ner, that “The American Negro has acquired a new self-respect and a new sense of dignity, since integration in public schools was made mandatory by the U.S. Supreme Court’s decision. He lacks the fear which once char­ acterized his behavior. He now uses duplicity as survival tech­ nique, knowing he has developed an honesty.

“As soon as we pass out of this shock period, I believe that Negroes and Negroes will work together without bitterness. If a Negro has a negative attitude, some are giving us silent sympathy, but the trend is toward coming out in the open and standing on the side of integration. I think the violence will be temporary. I don’t say it will end tomor­ row.

“But once that shock is ab­ sorbed Southernners will come to the point of seeing that the best thing to do is to sit down and work out these problems and do it in a very Christian spirit. I think the Negroes are going to realize that the old system is at its dying point. Many, many white persons of good will over all the nation have given us more support.”

Beyond Laws and Words

Thus, King’s leadership ex­ tends beyond any single battle. Home and churches were burned and racial passions rose close to mass violence in Mont­gomery’s year of the boycott, but King reached beyond laws and words, beyond violence and threats, to win hearts and challenge all people—with a spiritual sword that aspir ed to even greater promise than preachers of mind’s man. He struck where an attack was least expected, and where it hurt most: at the South’s Christian conscience.

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Montgomery Bus Boycott Led King to National Prominence

(Continued from page 4)

The education of the EPC recom­ mendation appears on page 5. The EPC is presently discussing the problems of the advisor system, a possible advisor support sys­ tem, and the mathematics curric­ lum.

The force of personality and conv­iction that makes him a public leader. No radical, he has avoided excesses of radicalism. Martin Luther King, Jr., is, in fact, what many a Negro, and indeed, many a white would like to be.

College graduates are permitted to further their education at either TCU or SMU at company expense, provided their grades are average or better. Personal recognition and ad­ vancement, based strictly on merit, provides an incentive for rapid professional growth. In addition, you will dis­ cover top-notch engineering facilities, excellent working atmosphere, personal job advantages and salaries that are tops in the industry!

Personal Interviews ON CAMPUS

February 27, 28

The Convair engineering department is a real “engineers’ engineering department”—imaginative, energetic, explorative—and exceptional care is exercised to make certain that each new employee is assigned to the job for which he is best qualified, depending upon his interest and education.

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Representatives will interview at Caltech March 5. Contact your Placement Office for details.

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The force of personality and conv­iction that makes him a public leader. No radical, he has avoided excesses of radicalism. Martin Luther King, Jr., is, in fact, what many a Negro, and indeed, many a white would like to be.
A message to
Graduating Seniors and
Candidates for Advanced Degrees
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UPPER LEFT—View from Olive Walk of the three new student houses.
LOWER LEFT—Caltech's new auditorium will seat 1200 and include an interdenominational chapel.
LOWER RIGHT—Math-Physics building will house math department and include new accelerator and low temperature equipment.
UPPER RIGHT—Floor plan of the three new Student Houses. The cafeteria will replace the Greasy.

PLANNERS INCLUDE HOUSES, LIBRARY IN $16 MILLION PLANS

by Cleve Moler

Three new student houses are included in the plans for campus expansion announced this afternoon by President Lee A. DeBride. The $10,100,000 Caltech Development Campaign will raise funds to construct badly needed technical facilities in addition to the houses, library and other new buildings.

The new houses, which will extend the benefits of house life to at least 75 per cent of the students, will cost an estimated $1,800,000. They will be built across the Olive Walk from the existing houses and will be architecturally similar. Grouped around open courtyards, the three buildings will have individual lounges and dining rooms, but will share a kitchen, a game room, and a laundry. The kitchen will also serve the new, $140,000 Campus Coffee Shop.

Student Union

A Student Activities Center, which will be built where the present coffee shop now stands, is included in the plans. Costing an estimated $350,000, the Union will provide offices for such student activities as ASCIT, The California Tech, The Big T, and the Y. It will also include an enlarged bookstore, a 24-hour snack bar, and a lounge for off-campus students.

Housing and social facilities for at least 300 unmarried graduate students will be included in the new Graduate Center, to be built north of San Pasqual street. The present grad dorms were built in 1908 and house only 70 of Tech's 1000 volumes will be included in the new buildings. To be built in the quad between Gates-Collin and Bridge, the library will also include microfilm storage, reading rooms, a reference library and music rooms. The bookstacks will be open to all readers.

Three more laboratories are included in the program, a $900,000 biology building between Church and Korenhoff and a $1,860,000 plant research addition to at least 75 per cent of the sciences department.

Caltech is probably the only major scientific educational institution that has no central library. A $2,600,000 house for the Institute's 100,000 volumes will be included in the new buildings. To be built in the quad between Gates-Collin and Bridge, the library will also include microfilm storage, reading rooms, a reference library and music rooms. The bookstacks will be open to all readers.

Culbertson Hall will be replaced by a new auditorium under the program. The $650,000 structure will have a main hall seating about 1200 people, lecture, conference and musical rooms and an interdenominational chapel.

New facilities for the physical plant department will also be built north of San Pasqual. The shops, offices and garages will cost $800,000. Appropriation of the necessary land for the expansion will cost $900,000 and bring the building total to $13,000,000.
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(in eight scenes)

1. Do you think automation will ever take the place of a pretty secretary? YES NO
2. Do you read science-fiction comic books to keep up with your science professors’ views on the space age? YES NO
3. Do you think marriage should necessarily void any of the rights granted by the Constitution? YES NO
4. Do you think any other cigarette has ever matched Camel’s exclusive blend of costly tobaccos? YES NO
5. Do you think good manners in a man are old-fashioned? (For co-eds only) YES NO
6. Do you think rockets will ever outdo Hollywood in launching “heavenly bodies”? YES NO
7. Do you think of Monroe only as the 5th President of the United States? YES NO
8. Do you prefer Bach to Rock? YES NO

If you answered “No” to all questions, you obviously smoke Camels — a real cigarette. Only 6 or 7 “No” answers mean you better get on to Camels fast. Fewer than 6 “No’s” and it really doesn’t matter what you smoke. Anything’s good enough!

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Jazz

Stan Kenton - - Contemporary Concepts

By Lloyd Kamins
Capital T666 featuring: Stan Kenton, piano; Bobby Clark, Ed Letty, Sam Noto, Al Percione, Sta Williamson, trumpets; Don Davidson, Charlie Mariano, Lenell Niehaus, Bill Perkins, Dave Van Kriedt, saxophones; Gus Chappell, Bob Fitzpatrick, Carl Fontana, Don Kelly, Kent Larsen, trombones; Ralph Blair, guitar; Max Bennett bass; Mel Lewis, drums.

This album is unquestionably one of Kenton's best. Although it could conceivably be called commercial, in that nothing pretentious or experimental in the least is attempted, the album is simply the end product of refining a good work. Kenton has passed the stage of controversy, and has established himself as a master of the task of perfecting his innovations.

Accent on Arrangements

The band has relatively few solos of the first rank, and the accent is primarily on arrangements, either for their own sake or as driving frameworks for the horn up front. Bill Holman did all of these on the exception of the Jerry Mulligan original, "Linelight." Nothing is atonal, but rather, particularly in the result, is a very pleasant and inoffensive release of the young Kenton album, in sharp contrast to his City of Glass album. Don't misunderstand me, however: this is straight Kenton, no holds barred. Everything is climactic, as far as dynamics go, and all swings.

The scores are impressive in their scope and in their execution. Here are the most difficult passages of the score, with the exception of the Gerry Mulligan original, "Linelight." Nothing is atonal, but rather, particularly in the result, is a very pleasant and inoffensive release of the young Kenton album. In at least one man's opinion, there isn't a better dance band in captivity. The flood of sound issuing from the Kenton bandstand provides an indescribable sensation. Kenton must be seen in person for full appreciation of the band.

Research Engineer Robert A. Thorpe, like many other engineers, mathematicians and physicists, came to IBM directly from college. Here he describes how he put his E. E. degree to work in the exciting new area of computer technology.

Indian Dance

Scourvy House had their traditional Indian dance last weekend. Several Indian big men on campus wanted to come but all to no avail. They did have an invited Frenchman and his date who spent the evening making amusing teenage riots. The cops copped up and asked this young man where he obtained said aspirin. "Why I got them from Maryann up at Chirichahua gun young squealer. The cops immediately stormed in with a pool of flesh. Also the poor cops got no satisfaction, the case was disposed and Maryann is a much happier and wiser man.

Crushed Grubbed

Ugly Ed found Lyod Kamins car in his private parking space. Doing what come naturally he pushed it out on the street. Where upon person or persons unknown came along and stole it.

What's it like to be with IBM?

"I joined IBM for two reasons," Robert Thorpe recalls. "First, the tremendous company growth obviously offered every chance for advancement. Second, the area of work was exactly what I was looking for—transistors and their application to computer systems."

In June, 1956, Bob Thorpe decided to enter the IBM training program, where he studied the corporate technique, its divisions and products. He received technical training in computer logic, programming, and components such as transistors, cores and tapes. By February, half his time was being devoted to an actual project; by the following March, he was on that project full time. "Our job was to transistors six servo-amplifiers for the airborne bombing-navigational system," he recalls, "and we completed the project in April.

In Research (as in all of IBM), he works in a small group. "Our team consists of three E. E.'s and a technician. We start with an analysis of the over-all system and its components. Then we use modem design techniques and its components. Then we use modem design techniques."

As his career develops, he can advance to technical management, to research assigned to the Circuit"...

Campus Brews

About thirty assorted Phlems and associates, namely their dates, converged on the Jaswrel and Anthe—ped as a limit this last Saturday night. Fun and drinking was bad by all. M. Montywor who was the official punch server passed out the window during the course of the evening and saw someone who had come as Pip Newton, detective character. A closer look by Monty showed that it was the real thing complet with who and all. Now you all little triffik drunks don't get excited someone had merely parked in a no parking gone. After this small bit of excitement the party settled back down to its mild orgy nature. One person (initials R.P.) who shall remain unseen because we don't use names in this business was in his typical attitude, head in fair damsels lap and sound asleep.

Research Engineer Robert A. Thorpe, like many other engineers, mathematicians and physicists, came to IBM directly from college. Here he describes how he put his E. E. degree to work in the exciting new area of computer technology.

Promoted to Associate Engineer

In August, 1956, he was promoted to Associate Engineer. At that time he had been working on a design and development project for a D.C. sweep-to-restoring system for transistorized digital air data presentation. He worked on this project until it was completed in May, 1957.

The "small-group" approach in research

Bob Thorpe was next assigned to the Circuit Logic Department. Here, he was concerned with research in new areas of computer technology—for example, magnetic logic and semi-conductor circuit components and systems which operate in "real time."

Recently, as “ ”Process Control Technology Group” has become a part of the Circuit Logic Department, “Our primary function in this group,” Bob Thorpe says, “is to study "sampled-data systems for industrial process control.” This work is related and involves mathematical studies of representative systems and processes.”
CANDIDATES' STATEMENTS

President

MICHAEL GODFREY

Briefly, I feel that a four point program concerning the future of our Student Corporation should be a minimum task. The variety of my City Corporation.
1. Organize and coordinate a dynamic group effort in ASCIT operations.
2. Review in advance each major board room topic in order to guide issues.
3. Inform the students of Corporation policies and activities through a California Tech "President's column."
4. Express individual student interests through established contacts with the faculty and administration.

As Secretary to the BOD and ROC I have gained the training necessary to understand the vigorous execution, of the duties of the President.

BILL McCURLEY

To further, our presidents must possess certain qualities to fulfill their offices. The key qualities I believe are:

1. A necessity is that of time. Any candidate must be willing to give, and must have time to do the job.

2. Even more important than time is the major aspect of the candidate with the students. Since a president is a representative of the student opinion he must be in touch with the student body throughout his term. Believing I possess the above qualities, obviously, I vote for you if I agree.

DON OWINGS

Whatever is important to you are my beliefs, for it which will concern acting as president. First I believe that any action of importance could be considered as long as possible to obtain the maximum thought upon the appropriateness. Secondly I feel that the Executive Committee should be used to the fullest in insurance, and finally, with the increasing use of the president as a representative of the students, I feel he should be in the closest possible contact with students. ASCIT President is a big responsibility, but one I want to accept.

Vice President

RUSS WIEHER

Concerning Vice-President, the ASCIT By-Laws state "His primary responsibility shall be to insure the continuity of the Honor System as a vital force among the student body; and the experience of being on the BOC thereby increases the amount of responsibility the Honor System imposes."

As a member of the ROC last year, I am quite interested in the change made by the recent amendment. It is that the Vice-President will be more concerned with various, general responsibilities of ASCIT. I think I could do a good job as vice president; I hope you agree with me.

JIM WILKINSON

The Vice-President's major concern is ASCIT, whose importance cannot be minimized. Though secrecy is mandatory in individual cases, matters of policy deserve more general student body attention; the system demands constant re-vitalizing and positive, dynamic leadership. The Executive Committee is a new concept - a body whose main jobs are long-range thinking and decision on matters of policy. To work, its members must have initiative, must not be afraid to express their opinions, and must not settle back "to watch." As a sponsor of the petition which led to this improvement, I sincerely hope its potential will be realized.

Secretary

KEITH BROWN

Next year's ASCIT secretary is going to face the problem of evolving the recently somewhat diminished committee. To do this he must know the interests of the student body and the actions of the downtown. In relation to the interpretations of the new ASCIT, the committee is formed.

To meet this, I have developed a three-point program consisting of extensive personal contacts and interviews, clear minutes with summaries of the longer discussions, and wider distribution of minutes around campus and to individuals. If I am elected, I hope that my broad control with campus interests will help me to carry out this program conscientiously and effectively.

BRAD EFRON

The position of ASCIT Secretary is not primarily secretarial. True, he must do an effective job of recording and presenting the ideas of the BOD, but more important, he himself is expected to contribute to these ideas. As assistant to the President and now a member of the Executive Committee, his opinions are of key importance in shaping Corporation policy.

During this past year on the BOD, I have generally voted to support projects that would expand student body activities (such as the Glee Club tour and an increased social program.) If re-elected I will continue to vote for a meaningful policy.

Tom Joy

Our ASCIT Board, saddled with inadequate organization, is seeking new leadership. I feel that the Executive Committee and the BOD are the two agencies which have the strength to take touch with the student body. An attempt has been made to re-vamp the by-laws, but what has been accomplished? Redistribution of office within the Board, creation of a new planning, executive committee and, unfortunately, excess of greater complexity. Personally, I am not seeking the position of ASCIT Secretary; I have yet to meet a person who enjoys talking "mins." Instead, give me the chance to work on a Board which will do less talking, take more action, and give us something to vote for, not in spite of.

Treasurer

JERRY ARSLON

The formation of an Executive Committee by the Student Body was a step in the right direction. However, for the Executive Committee to function effectively, its members must be mature individuals having both the abilities and willingness to work. I have given to decide and discuss intelligent policies with the proper concern.

As class president and treasurer, I feel that I have gained the necessary experience to enable me to handle efficiently the fiscal duties of ASCIT treasurer and to help form a competent Executive Committee which will function as a melting pot of student opinion on basic policies.

ARTHUR RUBIN

Recent creation of an executive committee definitely emphasizes the treasurer's role as much more than the time consuming, if not difficult task of bookkeeping. Work on a very practical basis, I feel that I can perform the routine treasurer duties competently and efficiently, allowing more time for more important duties.

In discussing my thoughts, on the position, I am in saying that I have this desire not only to serve you as ASCIT treasurer but also as a contributing member of the BOE, exhibiting maturity and responsibility one might gain and develop from serving, as I have, on the ROC. I believe the position of ASCIT treasurer is a very responsible position. It will be his reponsibilitv to relieve Senior members of time consuming duties, and to be effective, he should be experienced in ASCIT affairs. I have shown my interest in student affairs by participating in the California Tech, editing the Y's Beaver, working with the Educational Policies Committee, and managing varsity sports.

Activities Chairman

BOB TOLKACE

Recent California Tech and Engineering and Science articles have shown at 60 percent of possible campaign material out from under most candidates, but it always the way!

Most campus activities are either loosely organized or self-sufficient, and suffering from the wags of independance. The Activities Chairman should set the footings on the firm and act as liaison between the latter and the BOD. Acting as the adjective "ASCIT" should be more closely connected with ASCIT.

In addition, a sufficient number of good assemblies should be held and the cheerleading situation should be completely overhauled. Those are my first thoughts. Fire at will.

BOB THOMPSON

The office of Activities Chairman is a new one created recently by amendments to ASCIT By-laws. As it is new, the activities chairman should be simply the coordinator of the present ASCIT activities. It must be the chairman should strive to create a new activities on campus and increase the school spirit. In particular, the Thursday morning assembly is the most need for improvement and extension of ASCIT activities in the form of student assembly, in the confines of the available budget. I am the candidate by predecessors; it will become what the man elected desires.
A Campus-to-Career Case History

Bill Rhode (left) at the site of New Orleans’ new Claiborne Street Industrial Canal Bridge.

“Problems keep life interesting for a telephone engineer”

“I’ve taken part in all kinds of engineering projects during the five years I’ve been with the telephone company,” says Bill Rhode, M.E., Tulane, ’52. “Each project brings special problems to solve.

“Take a couple of recent jobs I did as examples. One was to plan and supervise the relocation of telephone facilities near a new drawbridge. The job included designs for attaching telephone equipment to the finished bridge and for providing service to the bridge tender’s office and the locks.

“The other job was completely different. I was asked to make an experimental installation of some newly developed line concentrator equipment. After selecting the test location, I engineered facilities for the remote concentrator unit, and trunk plant to the central office.

“Another thing about these jobs—they’re a result of the growth of the telephone business. Not only do problems like these keep life interesting for a telephone engineer, but they mean that careers are full of opportunities to show what you can do and get ahead.”

Wilmer J. Rhode is with Southern Bell Telephone and Telegraph Company. He is one of many young men who are finding interesting and rewarding careers with the Bell Telephone Companies. Ask your placement officer for information about the careers these companies offer.

Editor

Mike Milder

In the past two years, I have served as Frosh class president, member of the ASCIT, and member of the ASCIT Educational Policies Committee. The ideas and experience gained in these positions will, I believe, enable me to contribute to BOD proceedings, and will help to make me a useful representative of the student body.

Tom Tisch

As Representative at Large, there are three things I want. The first is to do my work well and help the other officers in order to make the Board of Directors operate more smoothly. Secondly, I would like to represent actively, using ideas that come from everyone, to benefit the school. Most important, I support a program of moderate action based on the new concept of the BOD—that it is primarily a day-to-day governing body. I hope that I may have the privilege of serving you in this way.

Secretary of B O C

Bill Bauer

As a member of the BOC, the secretary participates in the deliberations and, although he does not vote, he assists the other representatives in reaching decisions. As an officer he must perform the usual secretarial functions, as well as assist the vice-president in acting as liaison between the Board and the deans. I feel that my past experience as a representative on the Board as well as on student committees, such as Leaders of America, and as assistant editor of the Big T, will help me to perform these duties.

REAL ITALIAN ATMOSPHERE

Little Tony’s

ITALIAN RESTAURANT

2254-56 E. Colorado Street
SY 3-1340
Pizzas Spaghetti Cocktails
New . . . Parking in Rear

Serving the best in food and service

Mike Milder (left) in a scene from the musical " Carousel."
Fullerton J. C. Meets CIT in Alumni Pool

Tech's varsity swimmers, un­
defeated in two starts, cut Ful­
erton J. C.'s powerful natators this Friday at 6:00 in the Alumni Pool. The result would power the Beavers during water-polo season and will be out to repeat in the relay as­
pects. It stacks up as a very close meet with both lots of exciting races in store.

Tech is rapidly rounding into form. Last week Santa Monica met last Friday, Whittier, Sack, and La Jolla gave individually and powered the invaders to victories in both relay events. Pete Born hung up a first in the 50 freestyle. Final score was Tech 41, S. M. 38.


Track Team Hosts CIT

Coach Bert LaBrucherie's thin­
drus club is back in action this Saturday at 2:00. The track­
ners from California College will join them in.

Prospects for the varsity do not promise to be stupendous. However, Tech could have its best season in several years if inju­
dures do not return to Ed Kreh­
lein. I give a heartfelt thank you on behalf of all the team. Improved results do not promise well.

Opinion

AS I SEE IT

by Dick Van Kirk

This is the final week of the basketball season, and I’d like to
take the opportunity to put in a
criticism. Gene Rock, who’s done a
hen as head coach the last two years, has
toon a plug for the varsity basketball
teacher, and by John Ogle, second in
SCC, will be heavy favorites to carry an even greater weight
over the Beavers. Tech will be

The Poets, penned by Bill Har­
rton, the SBC's third best scorer.
and by John Ogle, second in
SCC, will be heavy favorites to carry an even greater weight
over the Beavers. Tech will be

The Interhouse Track meet provided one of the closest and
keenest competitions seen this year in Interhouse. The race
was undecided up to the next
to last event, the 120 lows, then
Ricketts took first and second in
two.
The field events were held
Thursday because of the Cal­
tech-scripps conference Sat­
urday. In the pole vault John
Weaver (R) won first, handling
a new meet record at 11'3½" and
just missing 12' Tony How­
ley (D) outdistanced Dick Hel­
merling (F) for second.

The high jump saw a tie for first at 7'8" between Bob Jewett
(P) and John Price (T). Tony Gungel set a new meet record of
3'9"½ in the broad jump, just
3 feet short of Dick Van Kirk's
school record.

Ricketts (D) got off a throw of 38'5" in the shot put. Freshman Doug Stewart
(R) lost an inch and a quarter to second place. In the discus, however, Doug took first from
Ross by a few feet. The javelin
was won by John Heinev (F).

The results at the end of the
day: D: 22-1/3, R: 20. P: 18. 4-2/3; T: 0.

Friday started off with the
1300, which was won by Mike Rucker
in a fair time of 3:38.7. Throop club won its first points when Steve
Arens captured the 880 in 2:29. In the 100, Dick
Krehbiel kept his own record and
John Weaver. Frank Childs (R) was
the 10 highs from Tony
Howell.

In the 400, Neil deCoston (D) won first as Mike Rucker slowed
at the finish. Dubsey also played a good one and finished second.
third. Herlein again took first from Weaver in the 220 with a time of 23.8. Throop
had two of the top three places and

Ricketts then sewed up the victory by placing first in the
120 lows. John Price outran Ed
Krehbiel, running on the
side, for a new record of 13.0. Childs placed second, just ahead of
Howell. In the relay, Fleming, won the varsity team by a

Ricketts Grabs II; Trophy Lost With Track Win; Two Records Fall

John Weaver goes up and over the
bar at 11’ 5” to set new IH record.

Page Eleven
The popular 18-piece orchestra of Nelson Riddle and the luxurious Crystal Ballroom of the Beverly Hills Hotel will blend for the entertainment of dancing couples next Friday, February 28, as the ASCIT presents the heralded Winter Formal.

Arrangements made by entrepreneur Tony Iorillo call for the music to begin at 9:00 and end at 1:00. Refreshments will be provided for the expected throng of formally attired couples, as a good portion of Caltech is expected.

Dress will be formal: midnight blue tuxedos for men and formal gowns for their dates. Iorillo has made special arrangements with Dedrick's Tux Shop, 230 S. Lake Ave., for a low rate to Techmen. Bouquets for the affable are available at a special price from Jonkers Flower Shop. All those attending will be expected to be in formal dress, in order to be in keeping with the tenor of the dance.

Tickets are available from Iorillo and Brad Efron at a cost of $2.00 per couple. All graduate students are cordially invited to attend; they are requested to contact Iorillo for tickets.

FOR THE ASCIT WINTER FORMAL
She'll love flowers from
Jonker's FLORIST
One door South of California on Lake
Special rates for Caltech students

STUDENTS! MAKE $25
Do you like to shirk work? Here's some easy money—start Stickling! We'll pay $25 for every Stickler we print—and for hundreds more that never get used. Sticklers are simple riddles with two-word rhyming answers. Both words must have the same number of syllables. (Don't do drawings.) Send your Sticklers with your name, address, college and class to Happy-Joe-Lucky, Box 67A, Mount Vernon, N. Y.

FOR THE ASCIT WINTER FORMAL
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Imported & Domestic Wines - Liquors - Champagne
Breakfast, Lunch, Dinner
Served Daily
Corner California & Lake

WHAT IS A FARM-WEATHER PREDEST?
WHAT IS AN ARGUMENT BETWEEN COMPUTERS?
PHONY CROY, MISS. MONTANA STATE

WHAT IS A CROOKED GAMING BOAT?
GIP SHIP
ROGER CROOK, S. OF CINCINNATI

WHAT IS A MAP WHO FED TRAFFIC SIGNALS?
BUNKER TINKER
ROGER CROOK, SACRAMENTO STATE

WHAT IS A CROOKED GAMING BOAT?
GIP SHIP
ROGER CROOK, S. OF CINCINNATI

WHAT IS A lucky STRIKE CIGARETTES?
LIGHT UP A light SMOKE—LIGHT UP A lucky!