

California Institute of Technology

Thursday, January 26, 1950

Volume LI.

WE WRITE THE TECH



Tech staff at Gambrinus pursuing their work after a full meal, at the first annual staff clambake, last Monday.

Tech Staff Holds Banquet

Beer, Women, Witty Conversation, and food, were the ingredients of the first annual Tech Staff Clambake held last Monday at the noted Pasadena Bistro, Gambrinus.

The candlelit, checker-clothed tables of Gabrinus withstood the onslaughts of seventeen Tech staff members, as this first of a traditional (it is hoped) series of get-togethers was inaugurated

Spanish Food

The staff scorched their gullets on a combination of Tacos, Frijoles, Tamales, and beer, except for a few carnivorous plutocrats, who gorged themselves on steak.

Invasion

Dinner conversation was on a high plane, restricting itself to comments upon the demise of an annual ceremony associated with pre-election campaigns.

Try Out!

So grab that false mustache and makeup kit and head for the first curtain of the Drama Players tryouts—This Sunday!

Drama Club To Hold Tryouts

Everyone who has a thespian streak in him or her should attend the Drama Club tryouts this Sunday, January 29, at 2:30 in Culbertson Hall.

Melodrama

This year's play will be an old-fashioned melodrama, loaded with sex, villainy and heroism. You say you can't act? Well, you can adjust lights, paint props, prompt, run errands, move scenery, and/or help the girls (yes!) with their costumes.

Since the play will be held on March 2 and 3, intensive work is necessary to whip it into shape by that time. Many people are needed, and the more players involved, the less the load to the individual.

Post-Game Hop

Ricketts lounge will again be open for a record dance this Saturday night following the casaba classic with Oxy which starts at 8:15. Soft music will be blended with refreshments to make this another fine evening.

Don Your Levis And Go West!

This Friday night will be a rollicking one at Mountain Oaks when the lid comes off the big Ricketts-Blacker barn dance. It's the chance for the troops to go full western for a change, and bright plaid shirts and levis will be in abundance.

Music for the affair will be furnished by Dick Hyde and his band, and there will be plenty of good mellow beverage to keep anyone from getting thirsty. The evening will be highlighted by the interhouse crew race, with an exciting battle expected in that strenuous athletic event.

Post-Game Hop

Ricketts lounge will again be open for a record dance this Saturday night following the casaba classic with Oxy which starts at 8:15. Soft music will be blended with refreshments to make this another fine evening.

Bohemians Aul To Hobart's Maul

The men of Dabney will be seen tomorrow night at an exclusive gathering to be given by Don Hobart, famed international figure newly returned to these parts. Hobart, a sensitive, discriminating soul of impeccable taste, has always desired friends of his own sophisticated strata who can offer intellectual stimulation not only through their minds but also through their unique manner of dress.

Above Knees

It is with great pleasure, then, that we can announce the continuance in this country of the noble society with its opening soiree to be called HOBART'S MAUL. All guests have been requested to conform to unconformity, particularly as regards women, whose skirt hems MUST be above the knees. The wearer of the costume "most capable of inciting the libidinous" will be awarded an appropriate prize.

Does Your Speaker Miss A Frequency?

All those interested in sound reproduction will be concerned with a demonstration seminar on loudspeakers to be given by Mr. Alfred W. Thiele next Tuesday. The seminar will be held in 155 Arms at 4:00 P.M.

Throop,Dabney Set Barn Hop

The Throop-Dabney barn dance, to be held on the evening of February 4, is very enthusiastically anticipated, and should be one of the high spots in the term's social program.

The Throop bowling party received a record turnout last Saturday. The Throopers and their dates were knocking down pins and pin-boys, respectively, at a mad pace. Contrasted with the phenomenally low score of Soccol's date ("No, you wait until the boy gets the rack up before rolling the ball"), Duane Neverman and Ralf Erickson pulled scores of 199 and 196.

Campus Calendar

THURSDAY, JANUARY 26
12:00 Throop Club Meeting
12:00 Y Upperclass Lunch Club
7:15 ASCIT Board of Directors Meeting in Lower Fleming
7:45 Dancing Class in Culbertson

FRIDAY, JANUARY 27
Blackett-Ricketts Barn Dance
Dabney Hobart's Maul

SATURDAY, JANUARY 28
6:45 Frosh Basketball vs. Oxy at PCC
8:15 Varsity Basketball vs. Oxy at PCC

TUESDAY, JANUARY 31
12:00 Frosh Lunch Club
7:15 Alumni Placement Lecture in Fleming

WEDNESDAY, FEBRUARY 1
7:30 Orchestra Rehearsal in Culbertson
9:00 Glee Club in Culbertson

Report to the Student Body

Last Friday afternoon, a committee of students brought to a conclusion several weeks' concerted effort when a report on the perennial Graduate Instructor problem as seen from the student viewpoint was presented to the monthly Faculty Seminar on problems of instruction.

This committee, composed of seven undergraduates, came into being after a meeting of the Student-Faculty Relations Committee in which complaints of the sort we all know and make so well were brought up and quite hotly kicked around. The suggestion was put forth at that time that the Student Body organize a group of its members to appear before the assembled faculty and air their views on graduate instruction as it is carried on at the Institute. Recommendations were also invited.

We set to work at the beginning of this term, and after extensive interviewing, polling, and correlating of ideas and information, came up with a report which, in highly abbreviated form, is as follows:

* * * *

The Institute, through the medium of the catalog, makes the following statement of educational philosophy:

"Advancement in understanding is best acquired by intimate association with creative workers who are, through research and reflection, extending the boundaries of knowledge."

We must qualify our concurrence with this idea insofar as a process of pure osmosis seems inadequate by itself; a real communication problem exists, and is the one we have been investigating.

The fact that this committee is composed of students is in several ways a distinct advantage. We have been able to gather and sift a very large amount of information and complaint from the very best source of such data—the men who are in daily contact with the teaching setup as it exists now, the undergraduates. One problem concomitant with using this source is obvious: everyone will grouse about something or other. Our task has been to look for a pattern in this potpourri of headaches.

The pattern is there. The gripes seem to fall into three categories, which also seem to us to represent the minimum criteria for an instructor in anything: 1) knowledge of the subject being taught, 2) interest in teaching, and 3) mechanical ability to teach. Results of a poll of the entire Junior class in the student houses (selected as a representative group) show that the first category was responsible for the smallest number of unhappy experiences with graduate instructors, and the last accounted for by far the greatest number. Over three quarters of those questioned claimed to have had at least one extremely poor instructor during their past two years.

It has seemed to us that the best use to which such a catalog of statistics could be put is in working toward some scheme for improving the situation. Our suggestions are grouped into the same classifications as are the complaints.

These recommendations are:

- 1) In order to remedy the present situation wherein a man

(Continued on Page Two)

First of a Series . . .

Present ASCIT Officers Describe Their Duties

Ed. Note: The following article by ASCIT Board members is the first in a series in order to make each corporation member better acquainted with the duties of each board position. Further details can be obtained from the Little T.

Vice-President

Undoubtedly the most important function of the ASCIT Vice-President is chairmanship of the Board of Control. As you realize, the Board of Control not only handles cases of Honor System violations but also tries to maintain the proper functioning of the Honor System on campus.

From year to year the number of violations brought to the attention of the Board is somewhat variable but is seldom more than five or six. When a case is reported, the Vice-President takes charge of assembling all the evidence, lining up the witnesses who will testify, and arranging details of the trial. This may take a few days in some cases.

Anyone considering running for office should realize that this particular aspect of the Vice-President's duties is often rather unpleasant.

Problems

There are a few problems concerning the actual functioning of the Honor System which every Board of Control faces. For instance from time to time there are complaints about the jobbing of Lab. reports in one course or another. The approach which has been suggested in the past is threefold: 1) Getting the instructors to define explicitly what is and what is not permitted; 2) Adjusting the amount of work required in the lab. of a particular course; 3) Attempting to establish a long range program of educating the students in the proper attitude.

Another program which might well be considered by the new Vice-President and Board of Control is a revision of the trial procedures.

A second duty of the Vice-President, as specified by the constitution, is heading the Court of Traditions. Since the war, one or two attempts have been made

to revive the Court but because of the high percentage of G.I.s in the student body the attempts have not been too successful. Whether or not the traditions should be re-established next year is one of the problems the new Vice-President will have to face.

A third duty of the Vice-President, which I need no more than mention, is heading the Honor Point Committee. New and changing conditions on campus necessitate a yearly revision of the Honor Point list.

Finally, the next Vice-President will probably be given the responsibility of handling the Consolidated Charities Drive next fall. This involves at least a month's work in setting up the organization and arranging the numerous details. I would say that the experience gained in conducting such a drive is very valuable.

David B. MacKenzie

Rally Commissioner

The Rally Commission in its present form consists of the following members:

1. Rally Chairman
2. Assembly Manager
3. Rally Manager
4. Faculty Member

5. A committee made up of one man from each class

There is a possibility that an alumni member will be added to the Commission in the near future.

The Rally Chairman is a member of the Board of Directors and has lately become a voting member of the I.C.C. It is his specific duty to plan the Pajamino.

He must obtain assemblies that will help to round out the education of the student as well as to entertain him. There is an allotment of \$500 of ASCIT funds to the Rally Commission for the financial backing of the assembly program.

A person with a great deal of ingenuity and new ideas is much needed in this interesting, time-consuming Student Body office of Rally Commissioner.

Burt Snider

(Continued on Page 4)

Second Y Forum On Sex, Monday

Large Forum Group Hears Fairchild In First Talk on Dating and Love

"Interesting," "stimulating," and "entertaining," were some of the comments made by the men and women who heard Mr. Roy Fairchild's talk on the psychology of dating, at the first of the Y forum talks on sex, held last Monday.

The next talk by Mr. Fairchild will be given on February 13, at 7:30 p.m. in 201 Bridge. At this forum he will speak

Know Your Alumni

by Bob Stanaway

Who is Joe Lewis? What is the Caltech Alumni Association?

Why should we as undergraduates at Caltech be familiar with Mr. Lewis and the work he is doing as president of the Caltech Alumni Association? These are questions, the answers to which are too frequently unknown in undergraduate circles.

New Gym

Most of the undergrads here at Tech have heard rumors concerning the construction of a new Gymnasium. These plans, which are part of the schedule now being carried out by the Alumni Association, are nearer to becoming a reality than most of us realize. First, however, I think it would be a good idea if I were to acquaint you with the foundation, functions, and organization of the Alumni Association, in order that there be a closer understanding of the assistance and interest being extended to we, the undergraduate body, by the Alumni Association.

Active

There have been approximately 4500 students graduate from Tech in past years and over half this number are now actively participating in the alumni functions. This is a remarkably high percentage of graduates. The (Continued on Page 4)

Basis of Love

Mr. Fairchild pointed out that should not be based on sex, emotional excitement, or a basic need that the individual feels can be satisfied by the proper mate.

"If you are not an independent individual you are not prepared for mature love," stressed Mr. Fairchild.

(Continued on Page 4)

No Soph Touch: Class In Black

Is Monorail The Answer To L.A.'s Traffic Problem?

Monorail, the transportation of the future, will be discussed at the Grand Annual CES meeting, February 6. Col. George Roberts will speak at 11:00 a.m. in 201 Bridge on this gravity-defying device that may solve Los Angeles' transportation problem.

Interview Schedule

JAN. 24, 25 & 26—DOUGLAS AIRCRAFT COMPANY, Santa Monica, California. Mr. C. C. La Vene, Engineering Division Employment Manager, Interviewer. MS degree men and up in Electrical, Aeronautical, Civil Engineering and Physics. BS degree and up in Mechanical and Chemical Engineering.

FEB. 2—WESTINGHOUSE ELECTRIC CORP., Mr. Stanley J. Johns, Manager, Service Dept., will conduct a group discussion in 206 Dabney Hall at 4:30 p.m. Thursday, February 2. All men who desire to be interviewed by this company should attend.

FEB. 8, 9 & 10—WESTINGHOUSE ELECTRIC CORP., Los Angeles, Calif. Mr. E. W. Morris, Mgr. of Eng. & Service Dept., will conduct a group discussion in 206 Dabney Hall at 4:30 p.m. Thursday, February 2. All men who desire to be interviewed by this company should attend.

FEB. 13 & 14—PROCTER & GAMBLE CO., Long Beach, Calif. Mr. Mills S. Hodge, Industrial Relations Supervisor and Mr. Knowles Service, Sr. Mgr. of the Engineering Division will be on campus to interview Mechanical, Electrical, Civil and Chemical Engineers. Applied Physicists and Chemists—BS and up. Openings will be in Engineering design and development work, plant engineering maintenance, and production and supervision; also chemical research, development and industrial engineering. Openings are in Long Beach, Cincinnati, Dallas, Kansas City and St. Louis. Juniors will be interviewed at a later date for summer positions.

FEB. 13 & 14—SYLVANIA ELECTRIC PRODUCTS INC., New York, N.Y. Mr. H. L. Richardson, Director of Industrial Relations, will interview BS and MS degree men in Electrical (Commun.), Mechanical, Chemical Engineering and Physics and Chemistry. Two or three PhD candidates in Chemistry will be interviewed for specialized investigation and development work.

APRIL 24, 25 & 26—GENERAL MOTORS CORPORATION, Detroit, Michigan. Mr. Kenneth A. Meade, Interviewer. Details later.

All interviews take place in the Placement Office unless otherwise designated in the announcement. Contact the Placement secretary as soon as possible for definite appointment and application blanks—120 Throop Hall.

All application forms filled out for interview appointments should be completed and in the hands of the placement secretary two days before the date of each particular interview.

REPORT TO THE STUDENT BODY

(Continued from Page One)

is given a teaching assistantship without any knowledge or idea of his ability or potential for teaching, we recommend that every applicant for an instructorship be interviewed in exactly the same manner as are undergraduates; that a number of recommendations be obtained from people who have worked with him, recommendations which would evaluate him as a teacher; that he be given a vocational aptitude test to determine whether he has latent abilities and interests for teaching. None of these could be sufficient by itself, and all three together are not the entire answer to the screening problem, but at least they represent an effort in the right direction; they can yield some information.

2) We recommend that a distinction be made between the teaching fellowship and the graduate assistantship, and that the former, the fellowship, be awarded a higher stipend; that efforts be made to accord this position the additional prestige which, because of the responsibility involved, it certainly deserves. (The assistantship would be for grading of papers, laboratory assisting, etc.) This would tend to make the teaching position one to be more carefully guarded; competition and incentive would result.

3) We recommend that a person well qualified in the field of instructional techniques and group psychology be employed by the Institute to give a course in these subjects to the instructors of undergraduates; that all graduate instructors be required to pass this course as a condition for holding the position; that the departments supplement this course with instruction conferences of their own in which problems peculiar to the department could be discussed.

4) Recognizing that the present system for channeling student complaints to higher echelons (i.e., sections sending representatives to the deans) does not work, we propose that the head of each department spend in the absence of the instructor approximately one-half hour per term (preferably near the middle of the term) with each undergraduate section in the department for the purpose of determining the effectiveness of the instructor, and the effectiveness of any selection and training plans which may have been adopted. This system would be routine, and need involve no embarrassment for the instructor concerned.

* * * *

This, very briefly, is the recommendation made to the faculty. At the time, we also made plain our strong belief that any plan for selection of teaching fellows must have the interests of undergraduates implicit in it, and should not consider the requirements of the particular department for research people **to the exclusion of everything else.** This report, in its entirety, will shortly be mimeographed and made generally available to anyone interested in the problem.

Finally, I want to give my inadequate thanks to the men who burned the midnight oil on this job, and who saw it as being important enough to rate large amounts of time which could have otherwise been used to the advantage of G.P.A.'s. Boyd Gage, Jim Hendrikson, Ulrich Merten, Barry Schuyler, Don Shepard, and Gene Spencer did an outstanding service. No honor points, Big T photos, or trinkets are in order for this kind of thing; necessity was the motive. Thanks, fellows.

Ralph Lovberg

ON THE RECORD

by Bill Whitney

The Alice Ehlers Ensemble were the guest artists at the third of the Coleman Chamber Music Concerts, given last Sunday afternoon at the Pasadena Playhouse. Judging from the general reaction, the performance was a distinct, pleasant surprise for most of the audience.

The ensemble consisted of harpsichord, viola da gamba, viola d'amore, and flute; the selections played were compositions of Le Clair, Rameau, Bach, Stamitz, and Telemann. The result was early music played, as it should be played, on the instruments for which it was written. The over-all musical effect of the group of instruments was very satisfying, particularly in the case of the Bach "Sonata No. 2 in D Major," for viola da gamba and harpsichord. We have always thought the piano-cello combination, which is generally used for the performance of the Bach "cello" sonatas, to be somewhat ungracious, the heavier qualities of both the piano and cello augmenting one another, rather than contrasting. The harpsichord and viola da gamba together are a more balanced duo, as the performance Sunday showed clearly. .

The viola da gamba and viola d'amore represent two stages in the development of the modern cello and viola, respectively. Both the instruments are played on seven and eight strings, complicating the problems of the performer immensely. With regard to playing double stops, for instance, one of the performers commented that "it's like walking on eggs, but you get used to it after awhile."

The viola da gamba is not so large as the cello, and does not have its richness of tone. It is played much like a cello, however, with the minor distinction that a small "footstool" performs the function of a cello pick.

The viola d'amore has a second set of strings placed about an inch below the strings which are bowed. Their function is primarily to resonate, augmenting somewhat the rather thin tone of the instrument.

After the performance Miss Ehlers gave a short explanation to those who were interested in the mechanism of the harpsichord, demonstrating how the strings are plucked by means of quills, instead of being struck as in the piano.

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Open Evenings

Potpourri

By Bob Crichton

Ernie Dzendolet has been hiding his talent from us. He is a painter. In his room, there hangs a self-portrait, in oils, that is amazingly good (for a first painting).

* * *

Len Schultz dropped in on the ASCIT Board of Directors' meeting last week and was pleasantly surprised. He hadn't realized that everyone is always invited, and he enjoyed seeing just how the board goes about making policy. He recommended that it would be worthwhile for everyone to go down and see how the student body ticks.

* * *

Don Royce announces that his automobile, or as he calls it, "The Thing," is for sale.

* * *



Dr. Royal W. Sorenson . . . born in Kansas . . . 4/25/82 . . . went to college at University of Colorado . . . has a B.S. in E.E., an M.S. and an honorary D.Sc. . . has a wonderful wife . . . four children . . . he has been on the faculty longer than anyone here . . . came when it was Throop . . . 30 students in all . . .

He serves on many faculty committees . . . Chairman of Physical Education Committee since 1913 . . . original enthusiast about athletics at Caltech . . . protagonist of Physical Education and athletics at Tech all his years . . . in the late 1930s Tech lost football games all the time . . . his perseverance kept football as a sport . . . was instrumental in football's return in 1944 after a gap of two war years . . .

He and Dean Thomas were the original advisors of Caltech Y, still on the Board . . . also on Tau Beta Pi advisory board . . .

Active professionally . . . Professor of E.E. . . . he developed with Millikan a vacuum switch for high potential current . . . instrumental in developing the plan for the first million-volt setup to be designed as such . . . Tau Beta Pi . . . Sigma Chi . . .

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• CAMPUS BREWINS

Just back from the Tech office and our monthly orientation lecture and loyalty oaths, we hang up our smoking trousers, put the typewriter up on the bureau, and quiveringly try to pick our way through the latest lists of "Thou shalt not's" in an effort to fill the few spaces left by Crichton's Potpourri. Knowing full well that that keen story of Managing Editor Kurland's extreme discomfiture will be mercilessly emasculated, and having discovered that the line-type is incapable of casting the combination **hefner**, we will try and focus our Medusa-like gaze upon those incapable of defending themselves.

Bergreen, the ever-alert entrepreneur, has hit upon a new scheme to extricate himself from the financial chasm into which rolling his car "at least once" has plunged him. His only joy, for the past three years he has spent in the vacation wonderland that furnishes the alluvial fan for Tech to bore basements in, has been the climate. Each day he rushes forth into the beauty of the California morning and searches the sky eagerly for a cloud. Should he find one he will stand there, dressed in a tea-shirt and barefooted, and heap invective on the native Californians that try to slink past him, damning them individually and collectively for their miserable climate. Convicted in his heart (if such there be) that all Californians are becoming sun-starved, he has now opened "Bergreen's Solar Saturation Spa", and there, with his capita investment (one 275 watt GE sun lamp) he dispenses, **for a price**, the life giving rays all day, and far into the night . . . "How like a fawning publican he looks . . ."

The Lemmings' Saturday evening dansante was not inconsiderably dampened by the sudden and unexplainable development of a cobalt-blue proboscis by one T. Malonoski. Developing a marked phototropism, he diligently went about turning lights on, to almost nobody's comfiture. Even this superhuman effort however, was insufficient for us to discern which of his two current loves Dallas Peck was surrounding in his weekly endeavor to be faithful to a young lady in far off Hawaii.

Peter Knoepfler has just had the last space punched in his fourth card for the term—the occasion being the **third** consecutive time that he has been stood up by some geology professor's daughter. This young lady evidently has some languid interest in the modern dance, for PK and at least two of his competitors have developed a passionate interest in this same unique

subject, and eagerly seek opportunity to discuss it with said minnie. Oh, well, Pete, there's always Scripps College at Claremont, Calif.

The situation is getting tense (to use a term much loved by a certain Pomona Miss) in the Western section of the Houses. A group of Lemmings, returning from a cultural evening abroad, and gently harmonizing on a quaint old ballad having the refrain ". . . your father's", ventured through the iron curtain and into the Dabney Court. There the chorus was subject to a vicious, unprovoked attack by the inmates, and one of their number, one Alan Haber (the insoluble) carried off.

He returned to his lair shortly thereafter, and drippingly exhorted his confreres to avenge his dampened ardor. The ensuing border incident might have gone unnoticed by the respective Departments of State of the two sovereignties involved had not a combat-crazed Lemming entered Alley 3 of Dabney, hurtled down to the end, and flung a waste-basket of water through the Presidential transom. This sacrilegious act was immediately followed by a strong diplomatic note to Mr. Wm. Cox wherein reparation (one qt. beer) was demanded by the outraged Darbs. This reporter predicts that the offenders will pay, not wishing war at this time. They will go to any lengths to avoid open conflict 'til they have had time to develop the uranium waste-basket and the hydrogen stirrup-pump, and thus achieve technological equality with the enemy ideology.

During the above mentioned conflict, Frosh Bob Burrell came pounding across the court as a self-appointed kamikaze, and hurled his wastebasketful at the first Lemming man he could find. This happened to be Darb prexy Don Royce, whose little sister had the opportunity to be stood up by this same Burrell shortly before. Royce went off, damply shaking his head, and muttering, "Thank God I'm not married . . ."

When **Hal Lazar** is frustrated, everyone, whether he care or not, will hear of it, and so the Blacker Tunnel is now fitted with earmuffs. Hal, whose observed dance floor technique at last Saturday's Open House was composed of arms enough to strike envy into the most amorous octopus, was met by a female reaction colder than the gaze of a Dean considering our reinstatement. Keep a stiff upper lip, Lazar!

A special communiqué from Washington informs us that the Navy, in a last, desperate effort to get the USS Mo. off its big,

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flat mudbank, is calling in the highly specialized (En-7) knowledge of Commodore (Dean) Eaton. The hearts of all we enlisted men go with you, sir.

Jack Willis, bent on getting the best reproduction from his 1000 watt amplifier, was trying experiments with part of his priceless record player. He discovered, much to his surprise that pot metal is rather sensitive to heat, as his tone arm dissolved into a little molten puddle on the stove.

Vic Porizky, having sworn off the races for good, couldn't resist what he thought would be a red hot day, broke his resolution, went to the track, lost eighty bucks, topped off a successful day by smashing up his car on the way home, to the tune of a couple of hundred greenbacks. Who says horses are lucky?

The biggest saga being grapevined about the Drurocracy of Blacker this week goes under the name of Pyatt's Folly. Gods-gifttowomen himself, along with Hefner, Howard, and B. Welch, trekked up to Big Bear in search of satisfaction for their animal spirits and in the course thereof chanced upon a dancehall where The Smooth One soon picked up a woman. Entranced by her sweet face, Pyatt took over, even located two of the wench's friends for Hefner and Berk (Howard didn't pant loud enough). The fluff invited Pyatt up to her cabin for a brew or two, but rather than be stricken anew with his old monicker "B.F.", Pyatt came back to invite the others along. But, since the other two doves had ditched our heroes in short order, Ed decided to be a martyr for friendship and gave up all his plans. The Order of the Wilted Lettuce . . .

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Shysters Lose to Hens, Win Thriller From Poly

Good clutch playing came to the Engineers on the wrong night last weekend as they were defeated by Pomona, a league opponent. Perhaps the ability to come through Saturday was born of the knowledge of mistakes committed the previous evening.

Except for the first and last five minutes, it was a very close game. Pomona got a lead of several points before the Beavers decided that their man-to-man defense wasn't working. When they switched to zone, they immediately caught up with the Sagehens, finally leaving the floor at half-time only one point behind.

Even Play

The second half continued in this manner, the two teams never more than a couple of points apart, the lead constantly changing hands. It looked as if winning would be a matter of who had the luck to be ahead when the gun sounded, when with 4 minutes left, Pomona got hot. Led by Center Bob Woods' five points, the Sagehens took what proved to be an insuperable lead and won the game.

Caltech might have done the same a little earlier if they hadn't literally thrown the ball away. Both teams showed very good defensive work most of the time which is reflected in the

low scores. Montgomery should be commended on his ball-hawking and the way he made McColl look silly.

Poly Play

It looked like the same game over again the next night against Cal Poly. The Broncos went to town the first few minutes and built up a slight lead which we promptly whittled back down. Caltech then became the aggressor, though we only led 17-15 at the half.

Again the second stanza was a see-saw affair, and again our opponents put on a spurt in the closing which might have won for them. Here the story became different. Norm Gray was the hero of the moment as he sank two quick ones to tie the score 35-35 and force overtime play.

Errors

Sloppy play seemed to be the keynote for both teams. What (Continued on Page 4)

Initial Meets Seen As Ovalmen Train

Track season rolls on with more and more of the school turning out. Before long there'll be more people out for track than for PE. It's rumored that Coach Nerrie's quarter mile that the PE classes are forced to do has strengthened the field events greatly.

IH Track

What with interhouse track coming in February, those who plan to enter should have started their training by now. While there's time yet, the runners in particular will need all the training time between now and then. And then, too, if you go out now, Mr. Bars might still have a track suit to issue you.

SPEAKIN' SPORTS

with Mike

The cracking of whips provoked the investigation of their origin early this week only to find the cat-o'-nine in the paws of Coach LaBrucherie. Tournament Park dwelling tracksters are emassing under full heads of steam and oval workouts are beginning to reach a healthy stride.

Problems

But, alas, we have a problem. It seems that we've got a rather large gap in the Class of '53 track squad. Flag waving or not, it's got to be said—Freshmen—give your school and your class a break. With less effort than you think, you can earn your numeral and a vote of appreciation from everyone at Tech.

Looking toward next Saturday's game with unpredictable Oxy, we see two teams recovering from somewhat upsetting scores against them. Tech's defeat at the hands of Pomona Saturday was by no means an indication of the strength of either team, while the Tigers were the victim of a red-hot pack of Poets and an off-night. Oxy, then, will not be defeated by anything near the 25-point margin that comparative scores would indicate. Prediction: The Oxy-Tech tussle will be closer than most of us think and at the final buzzer the Tigers will only be five shy of the Shy five.

Blacker Scores In Softball, Tennis

Interhouse tennis, after a rather slow start, has finally gotten under way. Johnson and Stallkamp of Throop downed Hickey and Allison of Dabney by a 3-2 count. Meanwhile, the powerful Blacker aggregation represented by Berk Welch, Don Schmid, Swaroop BhanjDeo, Wright and Harrison took Fleming by a 4-1 margin. The "Big Red" fielded Edwards, Drake, Ming Wong, Bennett and Scruggs.

In softball there have been some healthy scores displayed for the five innings of play. Highest score was the Blacker vs. Ricketts (12-5) in which Don Schmid hit a homer. Blacker also downed Fleming to the tune of 7-5, only this time "Pudge" Miller tallied a homer for the victors. Dabney defeated Throop, 9-4, with orchids to Martin Walt for his fine pitching and to Craig Marks for his four-sacker. In the last game played, the Fleming Red squeaked by Throop by a 7-2 count!

With the Interhouse Trophy race tighter than a Russell sweater, the results of softball and tennis may be a deciding factor. Dabney at present has a slight lead, but Blacker and Fleming are close on the Darbs heels. Fleming's athletic mastermind, the redoubtable Scantlin, has reportedly worked out some giant fiasco to put the Big Red on top again. (Continued on Page 4)



INDUSTRIAL field will be largest initial consumer. Product's resistance to acids and high temperatures is important in items such as filter cloths, coveralls, ropes, and work clothes.

THE DU PONT DIGEST

FOR STUDENTS OF SCIENCE AND ENGINEERING

EXCITING NEWS ABOUT Du Pont's Newest Fiber

Hundreds of smaller businesses will join with Du Pont in bringing benefits of Orlon* acrylic fiber to you

Strong sunlight will damage most fibers—but not "Orlon" acrylic fiber, the latest synthetic yarn to come from the Du Pont laboratories. This remarkable fiber, which took eight years of intensive research to develop, has a lasting resistance to sunlight, mildew, high temperatures and even sulfuric acid. Experts say that it is the best fiber yet found for outdoor use.

In 1940, Du Pont scientists began work on a new fiber that seemed to

have unusual properties. Development continued during the war when, under the name "Fiber A," the output went for military use in the hot, humid South Pacific. Recently the Du Pont Company decided to build a plant at Camden, South Carolina, for full-scale production. This new plant will cost about twenty-two million dollars.

While samples of "Orlon" fiber are now in the hands of knitters, weavers and finishers for experimental pur-

poses, it will probably be late 1950 before articles made of it will be generally available. Then you can expect to see it in awnings, convertible automobile tops, golf bags, sails, electrical insulation, as well as certain articles of clothing.

In developing the uses of "Orlon," Du Pont will work with hundreds of smaller businesses—a "partnership" that will bring Americans not only new and better products, but more jobs, more business activity and another contribution to better living.

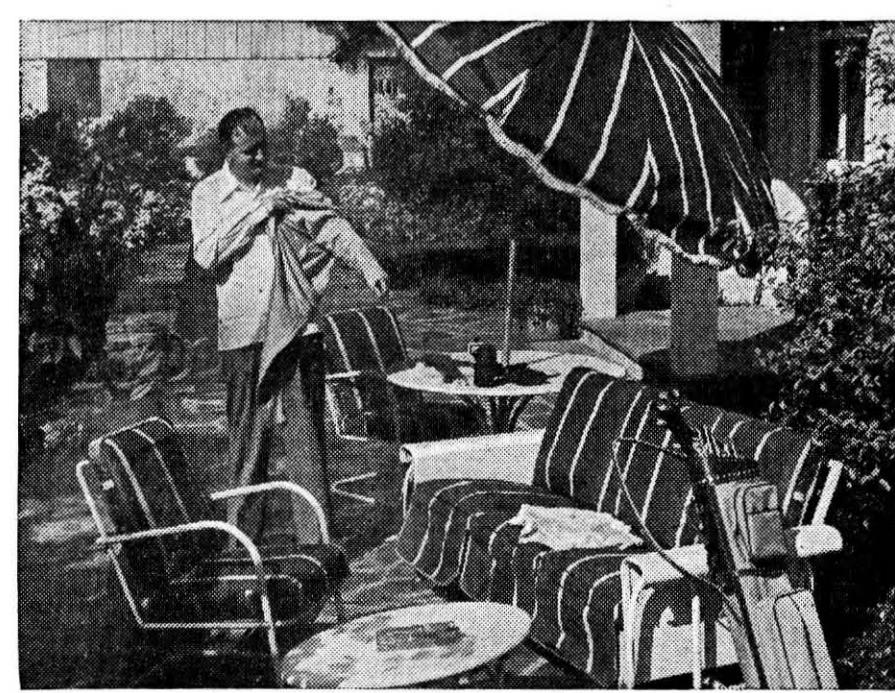
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SEND FOR the booklet "This is Du Pont." It is a 52-page picture story of one company's contributions to America. For your free copy, write to the Du Pont Company, 2503 Nemours Building, Wilmington, Delaware.



BETTER THINGS FOR BETTER LIVING
...THROUGH CHEMISTRY

Great Dramatic Entertainment—Tune in "Cavalcade of America" Tuesday Nights, NBC Coast to Coast



OUTDOOR uses of "Orlon" will include furniture fabric, golf bags, sweaters and swimming suits. New fiber stands up extremely well under sun and rain.

Beaver Sports

SPEAKIN' SPORTS

with Mike

Tech Melonmen Out For Win Over Tiger

Ailing Oxy Meets Beavers at PCC--Hopeful of Avenging '49's Defeat

Revengeful Oxy Tigers will meet Techmen at the PCC gym this Saturday in hopes of evening the 65-64 edging of last year. By far the most exciting game of the 1949 season, the two overtime thriller will be a hard one to beat.

Last year's contest featured Paul Saltman's twenty-six point

Frosh Sports Roundup

by Perry Vartanian

We begin this week's little gem with an SOS from the depths of Throop Institute. Wanted—urgent. Frosh—big, small, strong, weak, 4.0, 4.4. Anyone not handicapped by an inoperative heart, to go out for track. There is a dire need of men to compete in the javelin, broad jump, high jump and discus events. All interested report to track as soon as possible.

Seriously, even if you don't know what a javelin or discus is, men are needed in these events. If you have any interest whatsoever, what say! Let's get out there and give it a spin.

Basketball

Last weekend we had two games scheduled—one with Pomona Friday and the other with Cal Poly Saturday. Surprise—we only lost one. The other? Well, a slight slip along the line resulted in the deficiency of one gym in which to play the game. (Continued on Page 4)

Tech Bowled Over By Woodburymen

A powerful Woodbury College bowling team trounced Caltech Sunday afternoon at the Pasadena Bowling Courts while piling up a new record pinfall for West Coast intercollegiate match play. The Warriors from Woodbury fired games of 880, 951, and 891 for an all-time high 2722 total. Tech's meager 2256 pins, worst of the year, represents a huge 466 pin deficit.

Close Start

The match was very close, with both teams bowling well, until the ninth frame of the initial game, when the Warriors started striking consistently to take an 84 pin lead. From this point on they could do no wrong and demoralized Tech into doing everything wrong.

Although four other men were within six pins, Woodbury's Jim Gribbon rolled the day's best series of 580. Two other Warriors, Lloyd Hahn and John Joplin, shot games of 223 and 222 respectively.

Woody Bratnaber bowled Tech's best marks of 200 and 576.

C.I.T. travels to the Pan-Pacific bowling lanes in L. A. this Sunday afternoon for the final match with Woodbury in an attempt at revenge for the above slaughter.

Official Scores:

	Woodbury College	Caltech	Occidental
Hahn, Lloyd	180-223-174—576	F.	Haas
Gribbon, Jim	179-191-210—580	F.	Palma
Overmier, Howard	165-129-122—416	C.	Reynolds
Crawford, Al	190-186-199—575	C.	Crandall
Joplin, John	165-222-186—574	G.	Doty
TOTALS	880-951-891—2722		
Caltech	154-149-124—427		
Check, Andy	142-163-135—440		
Neverman, Duane	216-116-108—350		
Stone, Sid	179-146-138—463		
Bratnaber, Woody	195-181-200—576		
TOTALS	796-755-705—2256		

PASADENA BOWLING COURTS
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20c Per Line

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Colorado

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Fri. Nights

"Men's Distinctive Fashions"

SECOND Y FORUM

(Continued from Page 1)

To clarify each of his points Mr. Fairchild gave examples from life. Many of the people who heard the forum mentioned that these actual cases Mr. Fairchild related were a main component in the success of the forum.

Mr. Fairchild defined love as being a combination of the feelings, of care, responsibility (for the general life of the loved one) respect, and knowledge of the person.

At the top of Mr. Fairchild's list of obstacles to mature love was the feeling of self mistrust. He commented that the attitude of one George Brown who said, "Ah knows ah's not much, but ah's all ah's got," was healthy.

Remember and be at the next forum on February 13.

KNOW YOUR ALUMNI

(Continued from Page 1)

usual figure throughout the country is about 25%. In view of this fact, it would seem only natural that these members be concentrated in a local area. On the contrary, there are active chapters now in Chicago, Washington, D.C., New York City, San Francisco, and, of course, the headquarters here in Pasadena. With such a cross-sectional representation it is possible for Alumni in all parts of the country to stay in contact with former associates and friends and also to aid in developing Caltech prestige in their respective areas.

Origin

But now let us look into the origin of the association. Some 20 years old, the Alumni Association is a non-profit corporation whose purpose is to further the interests of all alumni and institute students by means of fund work and other activities such as the Alumni placement association, now located on campus. Of great significance and interest to all students is the prospective gym. Mr. Lewis has reported that the figures stand as follows (an estimate): Probable cost, \$250,000.00; present funds on hand, \$45,000.00; pledges, \$50,000.00. At longest, the time before construction starts, will be five years. There is always, however, the possibility of a much earlier start should unforeseen circumstances prove favorable. The estimated time of construction duration is now one year. Upon completion, this will be one of the most complete and efficient structures of its kind; one of which we, of the Institute, can all be very proud as well as the men who made it possible.

Career

Speaking of the men who made it possible, I have mentioned Mr. Lewis previously. I would now like to give just a brief outline of the steps he has made in his career since leaving Caltech with a B.S. in Mechanical Engineering in 1941. Mr. Lewis was contemplating a position with Shell Oil Co., having worked with them for the previous three summers. Then, through affiliations with the Industrial Engineering Department and changing interests, he decided to take a job with the Columbia Steel Corporation come graduation. All went well and he had accepted the position. Then in late May of his senior year an opportunity presented itself which Mr. Lewis felt he could not let pass. By asking for a release from Columbia, which was graciously granted, he took the other position which consisted of the very large job of organizing an industrial engineering department in the Boyle Manufacturing Company, this being a newly acquired subsidiary of United States Steel Company. Apparently his training and ability combined to make a very efficient man, for he was soon in charge of all that type of work for the organization. Then Mr. Lewis went into the Navy and upon his release he was offered several very tempting positions. He chose, however, to go with this newly expanded Western division of the United States Steel Company, which since had extended its operation over the entire country. Mr. Lewis was made assistant to the vice-president of the corporation in charge of all Pacific Coast operations and that is the position which he occupies at the present time.

Inspiration

The success which Mr. Lewis

ASCIT OFFICERS' DUTIES

(Continued from Page 1)

Publicity Manager

The possibilities for publicity and the office of Publicity Manager are tremendous for anyone who enjoys working up ideas with special angles or gets a kick from seeing his work hit the professional newspapers. It is very satisfying to set up stories and pictures on Tech affairs and see them get into print.

The job itself consists of two parts, the first the routine requirements of contacting the local papers to get preview and result stories of Tech's athletics printed. The Publicity Manager is responsible for all such stories that go to the local papers as well as stories and pictures of special student events, as the Pajamarino and Mudeo. The newspapermen he will meet are friendly, interesting, and eager to get his material for print.

The rest of the job is as much as the PM wants to make it, creating publicity stories, pictures, gags on Tech life for the public eye. The field is big: newspapers, national magazines, newsreels; and Tech has enough of a special reputation in the national eye to make it easier for the PM here to get attention for his work than in most schools. The job is fascinating and has a great potential if given a little imagination.

J. Hendrickson**POTPURRI**

(Continued from Page 2)

President AIEE 1940-1941 . . . Who's Who in America . . . Member of State Board of Registration for Professional Engineers since 1947 . . .

A teacher . . . Dr. Lindvall got his Ph.D. under him . . . Eta Kappa Nu (honorary EE society) each year names "The Outstanding Young Electrical Engineer of the Year" . . . the award has been given for only 13 years . . . his students have won it three times and four honorable mentions . . .

Interested in the community . . . an active member of his church . . . Board of Trustees First Baptist Church . . . President two terms . . . Chairman Building Committee during construction . . . Pasadena Y President for six years . . . still Board Member . . . Rotary . . . Masonic . . . Pasadena Twilight Club . . .

He was one of six leading American scientists sent to Japan in 1947 under National Academy of Sciences to aid evaluating plans submitted by Japanese scientific research in Japan . . . These plans went to the Economic and Scientific Section of General Headquarters in Tokyo . . .

One of the Tech faculty known all over the country . . . appears very conservative at first meeting . . . concealing a very kind and surprisingly understanding nature . . . helped a great many students . . . in his quiet way . . .

He has kept busy all these years . . . being creative . . .

has made of his career in Engineering has certainly been one worth observation on the part of all students here at the Institute. Such inspiring forerunners leave a tremendous challenge to the graduate of today. With the record which Mr. Lewis, and many others like him, have left, it can readily be seen what is expected of future grads of Caltech. At the present time these men who have gone into the field and now look back on the problems of getting started in their respective fields, are now, through the Alumni Association, trying to pass on advice which will be helpful to us now just beginning to climb. They have done this in a most commendable manner through instituting placement lectures by eminent men in many fields, and various other methods. We, as the recipients of their efforts, should show much more enthusiasm and appreciation towards such ideas as the aforementioned lectures held in the various houses on Tuesday nights.

A closer cooperation and affiliation between the undergrads and the Alumni will certainly be to the advantage of everyone concerned. Mr. Lewis and the men of the Alumni organization encourage every Tech graduate to become an active member and do his part to return in some measure the benefits which Caltech gives its men, so that in the future this may grow to become an even greater institution than it is today.

Caltech Fellowship Sets Meeting

Next Tuesday and Thursday the Caltech Christian Fellowship Group will be studying the eighth chapter of the Gospel of John. In this chapter there is the statement, "Ye shall know the truth, and the truth shall make you free." The group will be considering why Christ said this and what we are freed from by knowing the truth. The meeting will be in 251 Bridge at 12:30.

CAMPUS BREWINS

(Continued from Page 2)

The dates of Paul Langdon and Andy Boush in Blacker last weekend were a little taken aback by the red lantern which swings serenely in Langdon's window. Frosh Langdon, quick to sense the value of a Tech education, informed the young innocents that it was a special infra-red light that he was using in some experiments on the subversibility of macroboladynes. He'll go far.

FROSH SPORTS ROUNDUP

(Continued from Page 2)

And so we batted a .500 this week. The score against Pomona was 55 to Caltech's 32.

Aside from the funnel Pomona seemed to be using on our bucket, the game was pretty good. The little Beavers were outscored from the field to the tune of 25 to 10 goals. John Gee played his usual good game and sank 11 counters in doing so. He was followed by Corparales and Stevens with 5, and Scott, Hamberger, Muehlberger and Eylar with 2.

This Saturday the Frosh will tangle with the Oxy Frosh five at 6:45 p.m. on the PCC floor. It ought to be a pretty good game.

SHYSTERS LOSE

(Continued from Page 3)

started out as a practice game for the Engineers, soon took on a serious tone as it became evident that the Broncos might humble us on the maples as they did on the gridiron. The different combinations of players Coach Shy sent on the floor seemed to have little influence on the course of the game. Victory can be attributed mainly to a couple of sophomores and some luck.

Statistics:
Caltech (32) **Pomona (38)**
 Gray (2) F Hammom (3)
 Patapoff (8) F Welsh (9)
 Butler (10) C Wittenberg (4)
 Montgomery (2) G Cooper (7)
 Cox (5) G Essig (2)
 Half time score—Pomona, 17; Caltech, 16.
 Scoring subs: Caltech—Bowen, 5. Pomona—Woods, 7; Lapp, 1.
Caltech (40) **Cal Poly (38)**
 Bowen (2) F Lemos (5)
 Patapoff (8) F Giorgi (2)
 Butler (7) C Barnett (3)
 Cox (7) G Acosta (7)
 Montgomery (3) G Jenkins (19)
 Scoring subs: Caltech—Libbey, 2; Gray, 4; Sereno 7. Cal Poly—Billingshurst, 2.
 Half time score—Caltech, 17; Cal Poly, 15.

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and Laundry****ONE DAY Cleaning Service****AT REQUEST
NO EXTRA CHARGE****FOUR-DAY LAUNDRY****902 East California Street
(4 Doors East of Lake)****SY. 3-6704****Next Door to
Caltech Barber Shop****Throop Bowlers Gain on Rowdies**

Throop gained two points on league-leading Ricketts this week in IH bowling by winning five of their eight matches. The Rowdies won only three and had to dress for Tuesday night dinner for the first time this year. In other matches, Dabney took five of eight, Fleming three out of four, and Blacker forfeited to drop into the cellar.

League Record

Throop Team No. One shot a new league-record 1673 series including a huge 613 game in which the low man rolled 179.

Current standings:

House	Won	Lost	Pct.	Hi. Ser.
Ricketts	63	25	.716	1656
Throop	55	33	.625	1673
Dabney	42	46	.477	1610
Fleming	25	51	.329	1579
Blacker	23	53	.303	1578

Top individual honors again went to Throop's Woody Bratner for his scores of 179-204-177-560. Ralph Erickson of Throop was runner-up with 170-179-163-512, followed by "Snowbound" Ralph Stone of Ricketts with 156-169-176-501. Other marks: Joe Sunderlin (F), 191-472; Duane Neverman (T), 187-472; Andy Check (R), 187-461; and Sid Stone (R), 180-454.

Egad!

A lot of toil
It takes to grow it:
You till the soil
And then you sow it;
You water it well,
And before you know it,
It grows like hell,
And you have to mow it!

MONDAY, JANUARY 26

ATHALIE—Overture, by Mendelssohn. Dr. Heinz Unger (9).

Symphony No. 4 in G Major, by Mahler. Desi Halban, Soprano, Philharmonic-Symphony Orchestra of New York conducted by Bruno Walter (50).

Concerto in D Minor for Two Pianos, by Poulenc. Whitemore and Lowe, Pianists, Symphony Orchestra conducted by Dimitri Mitropoulos (24).

Peer Gynt Suites Nos. 1 and 2, by Grieg. London Symphony Orchestra conducted by John Barbirolli. Indianapolis Symphony Orchestra conducted by Fabien Sevitzky (32).

Beethoven's "Victory" Battle Symphony Orchestra conducted by Fabien Sevitzky (32).

"Le Cid" Ballet Music—Massenet. John Barbirolli and New Symphony Orchestra conducted by Stenka Razina—Glazounov, Constant Lambert and Liverpool Philharmonic Orchestra.

SATURDAY, JANUARY 28

"King Lear" Overture—Berlioz. Sir Hamilton Harty and London Symphony Orchestra.

"Madame Butterfly" Highlights—Puccini. Licia Albanese, Soprano. Lucille Brown, Mezzo-Soprano. James Melton, Tenor. Frieder Weissman and Symphony Orchestra.

SUNDAY, JANUARY 29

"Athalie" Overture—Mendelssohn. Dr. Heinz Unger and National Symphony Orchestra.

"Giro in Babylon" Overture—Rossini. Ugo Tansini and Symphony Orchestra of Turin (29).

"Wellington's Victory" Battle Symphony Orchestra conducted by Fabien Sevitzky (32).

Beethoven's "Jensen" Symphony Orchestra conducted by Fabien Sevitzky (32).

SATURDAY, JANUARY 30

Die Fledermaus—Overture, by Johann Strauss. The Hallé Orchestra conducted by Leslie Heward (8).

Symphony No. 94 in G Major (Surprise), by Haydn. Berlin Philharmonic Orchestra conducted by Dr. Hans Schmidt-Isserstedt (24).

Maurice Lamplin, Pianist. Concerto No. 2 in G Minor for Piano and Orchestra, by Saint-Saëns. National Symphony Orchestra of England conducted by Warwick Braithwaite (23).

Capriccio Brilliant, by Mendelssohn. National Symphony Orchestra of England conducted by Boyd Neel (9).

Les Indes Galantes—Ballet Héroïque, by Rameau. Soloists, Chorus and Chamber Orchestra conducted by Maurice Hewitt (48).

TUESDAY, JANUARY 31

Overture di Ballo, by Sullivan. City of Birmingham Orchestra conducted by George Weldon (9).

Symphony No. 5 in C Minor, by Beethoven. Boston Symphony Orchestra conducted by Serge Koussevitzky (31).

Jascha Heifetz, Violinist. Concerto for Violin and Orchestra, by Gruber. San Francisco Symphony Orchestra conducted by Pierre Monteux (38).

Music from Carmen, by Bizet. New York City Symphony Orchestra conducted by Leopold Stokowski (33).

WEDNESDAY, FEBRUARY 1

"Waldmeister" Overture—Johann Strauss. Walter Lutze and German Opera House Orchestra, Berlin.

Symphony No. 5 in D Major—Vaughn Williams. Sir Adrian Boult and London Symphony Orchestra.

"Samson and Delilah" —Bacchanale —Saint-Saëns. Arthur Fiedler and Boston Pops Orchestra.

Variations on a Theme of Paganini—Brahms. Arturo Benedetti Michelangeli, Pianist.

Symphony No. 101 in D Major—Haydn. Arturo Toscanini and Philharmonic Symphony Orchestra of New York.

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