Beckman Rules Given; Dedication Date Near

BY ANDRE BEVERIDGE

Dr. George Beadle, Chancellor of the University of Chicago, recently announced the rules of Beckman Auditorium on February 24th. He said that only with the auditorium would Beckman Audito.

room be made available. The auditorium was not to be used by the general public. All those who wished to attend the auditorium must have an estimated attend.

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DuoBlu Speaks On Situation In Guinea

BY JIM AUSTIN

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DuBridge Announces New Program To Fill Space

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Said Dr. DuBridge, "As the opp.

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Made to Order

Recognizing Caltech's great.

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Freshmen Elect Eaton President

After two run-offs, the Cal.

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President Arlin Peters was elec.

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One a Wonderful week for America's Space Program — 17 tons of used placed in space and other metal on the ground. Next week, they plan to send 19 million gold balls to Mars.

A Reproductive Case

DuBois said that Guinea, which he characterized as "kind of a repressive country," is ex.

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The first problem President Sekou Toure had to face was that of winning recognition from abroad. France refused to recog.

nize the new nation, and the U.S. did not even to avoid of (Continued on page 6)

Field interest are given first pre.

erence. Following them in priority are groups of Institute interest. Finally, groups off campus with no Instit.

ute interest are served only in special circumstances.

Besides the main requirement of numbers, there must have an estimated attend.

ance of over 300 before they may be scheduled directly into the Auditorium. Groups less than 300 must be scheduled into Caltech, and then if three weeks before the expected date of performance, they may be scheduled into Beckman the group may use it.

If a group wants to reserve the auditorium they should apply to Mrs. C. C. G. to the Public Relations Office. The Commite.

ee will set on the request basis of the date they want to decide whether or not the group will be able to use it.

Student Fee Free

Beach will be charged no fees for using Beachman, how.

ever, outside groups may be charged a minimum of $25, and the auditorium comes in two B&G men, a current B&G student, and the manager will be on duty. The committee will appoint a B&G administrator in front of the auditorium, and the group will have to supply a monitor. Either one of their faculty advisors must take care of this require.

ment.

Several problems still to be solved include that of the tax status of events scheduled in the auditorium. Rules about this will be cut soon.

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nize the new nation, and the U.S. did not even to avoid of (Continued on page 6)
The End!

After the recent unfortunate Lloyd House venture into the confines of San Marino, the IHC ruled that a significant part of the blame lay with the House itself. As a result, Lloyd was assessed a $150 fine, the money going into the Student Houses Library Fund. The California Tech has already expressed its confidence in a responsible IHC enforcing Student House transgressions, and we felt that they handled the matter very well.

Now there has occurred a new development. The Institute lawyer did a fine job in extricating the involved fresh from the civil court action with the minimum of penalty and embarrassment. But, Lloyd is now faced with a severer lawyer’s fee of $500.

The House has already voted to produce the $150 for the fee, and has paid the IHC fine. In addition, as of Tuesday night, Lloyd House was also to scorch another $100 to $150 in contributions from individual House members to be applied toward the legal fees. In light of this, the IHC voted on Tuesday evening that the money paid for the fine be applied to the defrayal of the legal fees rather than the increase of the Library Fund, in addition to the other $250 to $300 coming from the House.

For too few editorials are written to commend intelligent action, but the California Tech feels this is the case that the IHC shouldered its responsibility well, in this first case of monetary jurisdiction. We only suggest that Lloyd return in kind the good judgment of the IHC and conclude this regrettable incident with dignity.

—Don Green
J. C. Simpson

From Other Campuses
By Jake

Lloyd House’s new English-inspired singing group pulls one of their latest numbers, “I Want To Hold Your Hand.”

The second half of the bill should be familiar to many of us here, as they appeared at one of the morning concerts a few years ago. They are a youthful group of players (or brayers if you like) which features most poker-faced guitar guy I have ever seen. I thought he was a musician until he started singing. They have a somewhat more humorous approach than most bands of this type and are fun to watch, especially when they try to have as much of the leadership of Ruben Toole-keeper. Considering the show as a whole, the group is a good entertainer and those of you who aren’t weary of bluegrass should like it.

‘Tuesday Roundtable’ Tours Karman Hydrodynamics Lab

BY TIM HENDRICKSON

The regular ‘Roundtable’ tour of the hydrodynamics laboratory continues this week. Unfortunately the warning was not necessary, and no one went under during the tour through the hydrodynamics laboratory in Karman.

Dr. Taras Kiceniuk, chief engineer, conducted the group through the laboratory. After several discussions, everyone was led through the laboratory by Dr. Kiceniuk.

The most significant feature of this water tank is that it has an open interface between flowing water and air. The water inside is held stationary in the liquid Franklin effect. Thus the effect of having a large body of water prevented from flowing through it is much more complex than the increased surface area. Configuration and increased control over specific variables.

Abandoning the world of cavi-

since this column has been published regularly for months, it has, by a total voter turnout of 64%, been attacked in the last three weeks behind. Well, hopefully, the reader of this column, are at last three weeks behind. Well, hopefully.

The SAE Tadpoles went by the club last semester and ordered 75 roast beef, salad, corned beef, turkey and tongue sandwiches. The delicatessen, unlimited, filled the order and despatched them to Lloyd House’s new English-inspired singing group sings one of their latest numbers, “I Want To Hold Your Hand.”

Bob Liebermann (Honorary), Dave Seibert, J. C. Simpson, Don Green

Dick Kepp, Manager

Chairman: Gay Jackson

California Tech, 1201 East California Blvd., Pasadena, California

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But perhaps most interesting are her songs. She has, in her pursuit of folk music, discovered a new and interesting area which has not been immortalized on page 1. She is rather tough looking, which I suppose is the Indian way, and songs that she has written (honest as not all Joan Baez) style.

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Shock Waves Highlight Current Aeronautical Study

BY STU GALLEY

The only worthwhile thing for a man to do in life is to walk (with the possible exception of the old house) is that which is associated with the complex of Guggenheim and Firestone. These, together with the several buildings that nestle behind them, house GAL CIT—Graduate Aeronautical Laboratory, under the direction of Drs. Clark W. Millikan, whose lab carry out research in aeronautics in multitudinous problems, often unanswerable, outside the respectively moi-sustain ed and satisfy what Dr. Millikan and Ernest B. Sechler recently gave great the writer inter views describing the research.

Shock Activity occurs in both fluid mechanics and solid mechanics. In the first group, studies in clude shock waves, magnetohydrodynamics research is under rapid wind-tunnel research. Shock wave and magnetohydrodynamics research is under the direction of Dr. J. W. Liepmann, on the top floor of the new building. Liepmann studies with shock waves, events happening and measurements being taken on the microsecond level. The biggest tube, which is only about a year old, is about 80 feet long and 17 inches in diameter. A high vacuum is drawn in it so that the shock wave will be not a physical discontinuity, as it appears at normal pressures, but spread out to about a centimeter thick.

Shock waves are used for controlled nuclear fusion The best necessary to make plasma from ordinary gas usually come from a capacitor discharge and for shock waves (!). Alternatively, the study of the antics of a conducting body moving in a conducting fluid and a magnetic field may be carried out, not with plasma (closely akin to helium in being handled), but with cool, heavy, mer curious gas. This gas may be made to move through stationary mercury and a magnetic field in researches with similar to what happens in plasma. With this gas, the field strength is varied by certain vorticity conditions) preceding the body has recently been working in plasma, having formerly been only hypothesized.

Cited References

Wild-Tunnel research divides naturally according to the two tunnels being used. The first one, the hyperspeed tunnel, measures about the same conditions as those that prevail in plasmas, except that they persist for long periods, being at temperatures of only 1000 degrees and speeds of only Mach eight or so.

The main concentration has recently been on wakes of bodies traveling at hypersonic speeds, these are important practically because a missile re-entering the atmosphere has a plasma wake that encloses it like a sheath. This so-called signature of the vehicle disrupts its radio communication and affects its detection by radar. In the tunnel, the operating temperatures are not hot enough for plasmas, but the wakes are of some type. Investigation is also taking place concerning the point at which in laminar flow becomes turbulent, comparing slender bodies to blunt ones. Also, the effect of the temperature of the body on the flow, and the wake very far downstream, are being studied.

New Conditions

An important consideration in all the above-mentioned studies is that the traditional hydromechanical analysis is no longer valid at such conditions. Because must be made to the Maxwellian equations, trying them to systems where the gas particles have a net velocity.

Along this same line, Dr. Toshi Kubota is developing a new arcjet tunnel, which will be run for the first time quite soon. In this revolutionary device, a gas (helium, air, etc.) is heated in an arc chamber and then injected into an otherwise evacuated cavity. It is hoped that such a continuously-operating high-temperature tunnel will allow long-period observations of plasmas. The low-speed tunnel, used up until about ten years ago for conventional aerodynamic studies, is now being revived by Dr. Peter Lissman in applications to such unconventional aircraft as VTOL and hovering gliders.

Computers Came In Handy

Dr. Millikan mentioned the new computing facilities in Booth by saying that the current extent of research would have been impossible, because of the tremendous amount of data accumulation and reduction involved, were it not for access to Booth. IBM plotters and so forth are used right in the labs, and also “we’re making good use of the new computer facilities.”

Dr. Sechler, in discussing research concerning solid mechanisms, said that “mechanics as applied to structural and material problems in aircraft” is the fundamental theme. For example, aerelasticity, dealing with “aerodynamics applied to an elastic body,” is being studied in panel flutter and vibration of thin structures. Dr. Sechler’s own field is the analysis of thin structures, with an emphasis on minimum weight, as in missile skins. Very thin symmetric shells are produced by plating techniques; the plan is to understand “perfect” shells and then get in discontinuities and imperfections to see what happens.

Lastly, fracture mechanics, determining “why materials of all kinds actually break,” is under study through the propagation of cracks through materials. The new high-speed 35mm Ellis camera is being used to trace the propagation of a crack with respect to the crystal grains.

Okay. Now what?

While you’re busy mapping out your future, you may find it worth your while to help solve one of our problems: Who’s going to run the booming Pacific Telephone company a year from now—and for the next 50 years or so?

If the idea interests you—whether your major lies in the physical sciences, liberal arts, engineering, or business—you can be sure of a prompt opportunity to show your stuff.

In fact, your first assignment will be in management. (We can afford to bank on your managerial potential, because nearly all of our job offers go to above average students.)

As a member of management, you’ll have to solve your own problems. And from your first assignment, right on up into middle and top management, your pace will be in direct proportion to your performance. While our representative is on campus, have a talk with him. He has information that’s bound to interest anyone who’d like to run Pacific Telephone.

© Pacific Telephone
La Verne Whips Beavers Whittier Wins Squeaker

Saturday night, the Beaver women's basketball team played an inspired game. The Beavers were down by a good deal this time and forced Whit­

tier to turn the ball over to Tech without taking a shot several times. When Whit­
tier did get off a shot and Tech man­
aged to control the defensive rebounds well and kept Whitt­
tier to just one shot.

The story of the second half began to show up in the first half as Whit­
tier started to close the gap. Tech's rebounding improved and by the halftime mark, they had closed the gap to 51-53.

Whittier Closes Gap

As the second half progressed, Whit­
tier began to close the gap fur­
ther, and with about ten min­
utes remaining, the score was tied at

56-56. This included an eight point run by Tech in the final few minutes. When Whit­
tier did get off a shot and Tech man­
aged to control the defensive rebounds well and kept Whit­
tier to just one shot.

In doubles, the third team of

Santa Monica beat the first and second teams of Tech. In the first doubles match, Butch Niell de­

defeated Dave Kester and Mark Satterthwaite, 6-0 11-9; Jeff Pressing defeated Richard Jus­
ter, 6-4 60; and Jay Pearlman

Pressing and Pearlman defeated

Beat Beard and Satterthwaite,

the Ricketts team by a score of

20-18. This revenged an earlier blotch on

Tech. Mara copped the honors for

Vance Packard: "The Invasion of

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Let's face it, the invasion of privacy is not

necessarily a good thing. While Whit­
tier was unable to place men in the

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lead at 64-63 on a long bucket, but a thirty-foot shot by

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The frosh basketballers broke a long losing streak Saturday when they took a game from the Rio Hondo squad by the score of 75-63. Victories have come hard for the frosh this season and the frosh will take anything that comes their way. Last Saturday, they talked Rio Hondo into playing a game and the starters kicked the frosh came out on top. Admittedly, the frosh looked their best in several games. They were fast with a quick shooting hand. Their defense was the best this season. The largest factor however was the fact that their rebounding looked good.

Zona Works

The frosh used the zone press for one of the few times this season. They didn't play it exactly the way UCLA does but they made it work anyway. Rio Hondo, being served an expectant system to keep fresh players in against the frosh's zone press. With the press doing the major damage, the frosh took a 30-0 advantage into the locker room. The tight defense resulted in numerous steals and had passes on the part of Rio Hondo. The fast break seemed in high gear too as the frosh were able to use it effectively for the first time this year.

Rio Hondo looked better against the press in the second half, but they were never able to cut the 14 point halftime margin any earlier. When the press didn't give the frosh any fast break opportunities in the second half, they worked the half well and managed to free men consistently for the easy shot under the basket. Gray Jennings and Herb Dabney were the main factors in this part of the game.

IH Football

(Continued from page 4)

Although Lloyd matched these points for point for most of the half, the lead remained with 18 points. The frosh showed real improvement as they battled LaVerne's tight defense.

Varsity BB

(Continued from page 4)

This could be the start of something...BIG!

If you are completing your BS or MS degree in EE, ME or Physics, AC-Milwaukee's "Career Acceleration Program" is a specific project. Courses include: ADVANCED THERMODYNAMICS, INERTIAL INSTRUMENTS, DIGITAL COMPUTERS, DYNAMICS, DATA ANALYSIS, plus mathematics and undergraduate college-level course of study when undertaken voluntarily. For further information on AC's "Career Acceleration Program," contact your placement office or write Mr. F. J. Raasch, Director of Scientific & Professional Employment, Dept. 57553, AC Spark Plug Division, General Motors Corporation, Milwaukee 1, Wisconsin.

Add on-the-job training to your college education. AC also offers an "in-plant" evening educational program for additional technical improvement.

LOS ANGELES—Advanced Concepts Research and Development On-the-Job Training Program—AC's Los Angeles Laboratory is engaged in research projects in aeronastics, space navigation and inertial instrument development. This laboratory works from theory to prototype, advancing the state of the art in navigation and guidance.

PhDs, please note: Positions are available in all three AC locations for PhDs, depending on concentration of study and area of interest. You are invited to contact Mr. Raasch for further information.

AC SPARK PLUG THE ELECTRONICS DIVISION OF GENERAL MOTORS

MILWAUKEE — LOS ANGELES — RUSTON — FLINT
An Equal Opportunity Employer
Dr. Lang Visits Russia

Dr. Anton Lang, plant biologist at Caltech, upon his return from the Soviet Union described the Communist system as a "workings - creaking and sputtering, with much waste and discom­fort" but "things are improving." Lang visited laboratories, gave lectures and performed research on gibberellin, a plant growth hormone, in Russia. The project was sponsored by the U. S. National Academy of Sciences and the U.S.S.R. Academy of Sciences.

Ineffective System

Lang asserted that, "research on plants in the Soviet Union reflects quite faithfully the general state of things there." He further says that the Communist sys­tem, "is ineffective and un­wieldy, and although it does not re­press responsibility and enter­prise altogether, it does en­courage it."

Lang received the impression that the Russian people do not question the fundamentals of their political and ideological foundations and do not think of another political and economic system as a possibility. He says, "no, in the Communist system," upon his return, "that even scientists, who should have inquiring open minds did not make "significant probing into the fundamentals of the existing system."

In comparing the Russian lab­oratories to American counter­parts, Lang noted the work in the Russian laboratory "is very time­ consuming and inefficient." All plant research is dictated by the U.S.S.R. Academy of Sciences on a nation-wide basis. A factor de­trimental to the development of good basic plant research in Rus­sia is the demand from the hier­archy that research produce im­mediate practical results.

Another detrimental factor is the influence of Lysenkoism which states that acquired characteristics can be inherited. This concept which fits some tenets of Communism has been repu­diated by serious geneticists, in creating in their minds a distorted 'dream world' idea of other countries." Lang found that even scientists, who should have inquiring open minds did not make "significant probing into the fundamentals of the existing system."

French Friction

On March 1, 1960, Toure an­nounced that Guinea was with­drawing from the franc zone, and would hereafter have its own currency. He ordered the army to prevent runs on banks. In retaliation, France froze all Guinean assets in that country and cut off trade, as did neighboring African nations with French sympathies. Period of Crise

Today, Guinea is in an ex­tremely difficult position. After Toure's bitter words, the coun­try can not now return to France. Toure knows nothing about economics, and the loss of Western trade and the closing of almost all the French firms in the country have led to eco­nomic chaos.

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Crisis In Guinea

(Continued from page 1) leading Tirailleur. Thus Guinea was forced to look at the East. Russia not only recognized the new state, but sent an ambas­sador with money. Other Red countries soon followed this lead.

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