Techers to Demonstrate Artistry at Paint-In

Saturday in Dabney Garden

by Phil Neches

Reliable rumors report that Harold Brown, the soon-to-be sworn-in President of the Institute, assorted the lack of imaginative, artistic decoration on the fence around the Baxter Humanities Building. Taking the criticism to heart, the Art Program, the Dean of Students, and the Master of Student Houses have arranged for the one and only Harold Brown Inaugural Paint-in.

Art materials, consisting of 4’ x 8’ mosaicite boards and paints, will be provided on Saturday, October 25, starting at 1 p.m. to any person or group wishing to create an art masterpiece to grace the construction fence on the Beckman Mall. The mosaicite boards are for safety: unfortunate incidents in the past point up the dangers of painting directly on the walls of the construction site.

Local Color splashed
All persons, houses, groups (recognized or otherwise; formal and informal) are encouraged to participate in this activity which will certainly add a little local color to Tech. Any style, concept, design will be encouraged, but please remember that the best works will be displayed during Harold Brown’s inauguration. So whatever your artistic bag is, pop, op, dada, surrealism, expressionism, impressionism, abstract, abstractor, or whatever, come to the Paint-In and join the fun. Bring your friends, dates, models, etc.

HARPER’S BIZARRE

OCTOBER 30
TICKETS AVAILABLE FOR DINNER AND CONCERT FROM HOUSE SOCIAL CHAIRMAN AND AUDITORIUM TICKET OFFICE

TWILIGHT BUFFET

The CALIFORNIA Tech

Volume LXI
Pasadena, California, Thursday, October 23, 1969
Number 5

Talks, Construction, Films
Mark Moratorium at Tech

by Dave Dixon

On Wednesday, Oct. 15, Caltech participated in the National Day of Moratorium on the Vietnam War. Many people from Caltech and the community participated in the Moratorium as over 1000 black armbands were distributed to commemorate those killed in the Vietnam conflict. Also, during the day there were over 500 people at one time centered around the main speaker’s platform outside the book-

The stated purpose of the Moratorium was to think about the Vietnam War. For this occasion many professors cancelled classes while some held discussion in class. During the day over 300 postcards against the war were sent to President Nixon while about 1000 signed the following petition:

“We, the undersigned, declare that this war must end promptly. We petition the Pasadena City Board of Directors to call upon the United States to withdraw all American military personnel from Vietnam immediately, or certainly no later than December 1, 1970.”

During the day much activity centered on the building of the Moratorium monument and on the reading of names of those killed in Vietnam. The construction was to symbolize the differences between war and peace and to be a reminder of the continuing conflict in Vietnam.

The day began with the reading of the names of the dead and the building of the symbolic cemetery. Later during the morning came the short set by the D.J. Steve Rusta. Then the morning’s speakers came in being introduced by Dr. Rosenthog, history professor at Caltech. The three speakers were Robert Vogel, from the West-coast Peace Education Association, Michael Lemmon (AFSC), and Dr. Max Delbruck, from the West-coast Peace Education Committee (AFSC.), 6th Leg. Sets for Peace, and Stanley Kohls, draft resistor. After the speakers came five films of which the one visited by most
Enough Is Too Much

We were遨游在 the news last week that the Trustees have decided to admit women next year. This announcement marks the official end of the long struggle to bring coeds to Caltech. However, this is not the end. The way the Trustees plan to bring the women in, the women will be admitted in addition to the regular male admissions. Apparently, the Trustees are trying to increase the undergraduate population by this method. We consider this to be extremely ill-advised.

To begin with, the unusually large freshman class this year has brought the Student Houses perilously close to being overcrowded. The addition of 25 more students in the houses will make the situation critical. As a result of the overcrowding which would follow any increase in undergradual enrollment, many students would be forced to live off campus. Life in the student houses is one of the most important aspects of life at Caltech. We do not think anyone should be forced to live in the absence of the houses if anyone wishes to choose to live in them.

Finally, if the houses (particularly the new houses) are crowded further, most of the upperclassmen will be driven off campus. This will result in a deterioration of the quality of student house life. It is the upperclassmen who maintain the character and traditions of each of the student houses.

In short, we believe that the undergraduate enrollment should not be increased at this time. Women should be admitted as a portion of the regular admissions quota.

-Craig L. Samitz

The Right View

Ochsner Signs Off

To the students, faculty, administra­ tion and associated personnel of Caltech:

This is the last Right View column.

Most of you who read this who were connected with the Institute in the 1968-69 school year. And probably many of you at one time or another read one or more of my columns.

Undoubtedly, the majority of the students will be in total disagreement with what was said. There were a few who could agree with much of what was stated, although it is doubtful whether anyone could ever be in total agreement.

The purpose of the Right View was to provide an alternative—to educate. To some degree at least, I agree with what was said. There were a few who could agree with much of what was stated, and I read one or more of my columns. Anyone could ever be in total disagreement with what was said. I reply with my thanks. To those who sent me letters of ridicule, or with which I disagreed, as I understand it, approxi­ mately 20 persons from Page House who sent me letters of ridicule, or on of thoughtfulness, I must also add thanks. For from these well I was able to judge the success of the Right View.

To those who offered suggestions for future columns, or ideas which might be incorporated, I am again grateful, but I cannot comply. The Right View will not be continued.

At the end of the last school year I left the Institute in order to enter the Rice University School of Architecture. That is where I am presently enrolled.

I am requesting that the editors remove the byline, The Right View, from current use, to be ended with this column.

To all who read the column, at least once, my thanks.

Your very truly,

Jeff Ochsner

Letters

Kapitsa Lecture Stirs Debate

Dear Sirs:

A few days ago, I was among a group of writers who were speculating as to the possibility of a four-day weekend commencing with the celebration of the 25th anniversary of the October 30th. However, I have recently learned that classes would continue running on Sunday morning of that day and that there is a possibility of interference with the discretion of the instructor. It being a holiday, with special events planned, it would appear most opportune, in view of the impending weekend, to declare Friday as well as Sunday, as the holiday.

Moreover, such a reprieve forms may provide to many others an opportunity to prepare for the mid-term examinations to be held for the week of November 2-7. We therefore, that the possibility of the Friday holiday be seriously con­ sidered by the Administration.

Sincerely yours,

Torkman Lowe

Dear Tech:

In short, we believe that the undergraduate enrollment should not be increased at this time. Women should be admitted as a portion of the regular admissions quota.

-Craig L. Samitz

The Right View

To the Editors:

Regarding last week's letter and the following paragraph: it seems that the House who wrote could have occurred in the same column; evidently some explanation is in order.

We did not state that an individual was responsible for the actions of his government (a fact which we believe is true), but rather that a government is responsible only for his own actions, and in the case of Dr. Kapitsa, we believe he is responsible. A scientist's responsibility does not end with rigorous adherence to the rules of his field; what that work will be used for, to the best of his ability, to determine that, particularly if no one else could have done it. Dr. Kapitsa works for the Soviet government, and has of his own volition put into their hands results which have been used to further the cause and to increase the efficiency of the Soviet reign of terror. A concrete example is the advance in liquidified gases cited in the testimony before the House in 201 in 1952. In this context it is said, it was, has greatly aided the rocket program. Please remember that Dr. Kapitsa is a man, and remember that individuals do make mistakes. Whatever his conscience says, he has decided to make a contribution for the destruction of freedom.

This is the reasoning behind the opinion expressed. Note that a personal view or judgment is not an issue, but an inherent trial and can be valid in abstentia. We believe that the position taken by the board is correct, and above all, in the context of physics and the living of physics. Dr. Kapitsa was sanctioned in the science­ ethics dichotomy by showing no concern for the consequences of his research. This is evidenced by the work of the Institute and that of Dr. Kapitsa.

Lawrence McGlone

Terry Boardman

Editors' Note:—we thoroughly agree with Messrs. Rhodes and Ochsner in their positions. We think the position which Mr. Ochsner took is correct, and that of the Board is correct, and that Dr. Kapitsa is wrong, and Dr. Kapitsa, as one of Them, should be condemned. See also the article on p. 823.

The opinions expressed herein are solely those of the Right View, from current use, to be ended with this column.

[64]

To the blind frosh minds:

Dr. Kapitsa, as one of Them, should be condemned. See also the article on p. 823.

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“Fourth?”

by Robert Geller

Most bridge players tend to underestimate the importance of pre-score hands, particularly at international match-point team-of-four scoring. That is why ANDA is organizing a team match at Bob’s Bridge Club at 779 North Moreno, demonstrating that significant swings can be generated on post-score hands. The games at Bob’s, incidentally, are run by North-South pairs; if you are willing to go one round with the refreshing idea of offering cash rather than master-points as prizes.,Purchase $10 dollars a session you can play against players like Clark Merritt, the San Gabriel Deuces and Bob McDonnell. Team games are something that every bridge player should try at least once, especially when Mr. Derricott is running the games.

Very bad judgement was shown by both North and South in the bidding. North was just begging his partner to get his partnership into trouble when he overcalled on such a balanced hand with a minimum high-card structure (at his vulnerability). Obviously, South promptly overbid his hand with one spade bid. He should have had the good sense to realize that his diamond king was not an especially useful card and should have combined his bin with his raise. He should have decided that one bid on his hand was enough.

Killing Defense

Surprisingly the North-South bidding was duplicated at the other table, where North-South played in two spades making three. This North-South pair, though, was unlucky enough to receive good defense. West, having no really good lead, started by underleading his ace of clubs. South really had no way of telling what West had done and played low from the dummy. East, who was quite surprised to win the trick with his queen’s trumps, played sufficient compounce to return his partner’s bid suit. After taking his two diamonds and the ace of clubs, West decided that the defense’s best chance was to try for two heart tricks. After making the ace of hearts for the setting trick East led another heart. South guessed wrong by raffling his queen of nine and went down two. The swing to West’s team was seven international match-points, or more than the swing for making a non-vulnerable game when the other table is in a partial.

Dr. Pyotr Leonidovich Kapitsa is considered the most eminent Russian physicist for some very convincing reasons, as he proved last Monday in a lecture in 201 Bridge. Standing room only conditions prevailed, as students and faculty jammed in to hear the 75-year-old “Dean of Soviet Physicists” lecture on ball lightning.

Ball lightning, Dr. Kapitsa said, is a ball of hot, ionized gas which can flash over by means of an explosion in an area. He also said that the ordinary lightning stroke acts as a wave guide for a train of micro-waves which provide the energy input for the lightning ball.

Shocking Results

To test his theory, Professor Kapitsa used chambers filled with helium placed in microwave cavities. With powers ranging from 1 to 15 kilowatts, Dr. Kapitsa and his co-workers produced brief discharges which were highly similar to ball lightning. They also found that the addition of impurities (they used some acetone with the helium) resulted in a considerably brighter discharge, and that, with sufficient power, the lightning ball had an inner core of plasma.

High Intensity Stroke

Investigations in the Caucasian Mountains by 10 or 15 young scientists working under Dr. Kapitsa verified many of the laboratory results, but several fundamental questions remain unanswered. When asked what was the mechanism by which a lightning stroke produces the high intensity microwaves needed, Dr. Kapitsa replied that the ball ionized gas produced by the lightning stroke created a resonance condition which, he said, makes an interesting problem for the theoreticians. On being pressed further, Dr. Kapitsa said, “If you know for certain, it’s no longer science.”

Winning Wit

That response is typical of Dr. Kapitsa: he has a quick and warm wit, and a winning style of lecturing which, even with the difficulties of lecturing in a foreign language, infects his listeners with enthusiasm.

This has been a sketch of what things are currently in the works. We are still very much open to suggestions, and in fact solicit them actively.

For convenience, each of the meeting times are summarized below. All of them are open and scheduled for the Y Lounge.

For more information, contact the Y Staff.

FM!Jurgers

Hitely

Coffee
Sundaes
Soda
Hamburgers

The Coffeehouse
Open

Nitey

9:00 PM

At the sign of the turtle
1101 San Pasqual
Near Wilson

The Moratorium
Continued from page one

The Big T
IS COMING !!!

people was “The War Game,” a powerful BBC film on atomic war. During the time that the film was being shown, five discussion groups were being led by a variety of Caltech professors. All were well-attended and most of them were successful in bringing out many ideas. These groups were: draft, resistance, moral issues and history of this American involvement in Vietnam, end the war, social responsibility of the scientist, and open-end discussion.

There was another battery of speakers, led by Jeremy Lamer, a Master and Dr. Lester Lees, professor of societitics at Caltech, and these speakers had an open mike so that people could give their personal views to the collected people.

The Moratorium then broke up with many small discussion groups and with future plans to continue the Moratorium with the November 15 march in San Francisco and by having more speakers on campus at this time.

After the lecture, I spoke briefly with the Professor. He said that the political divisibility of our two nations should not impede common pursuit of scientific knowledge and indicated that he was sorry that he could not make it to the Student Center as was planned. Dr. Kapitsa symbolizes the hope that whatever the political situation, man can progress by cooperation.
by Nick Smith

One kind of pig is reputed to hit the ground running. Another kind hits people with music. The latter kind of pig is called a California Tech. In this issue of The Californian you'll meet a new group featured at a special concert given by A&M Records last week. Blondwyn Pig is to Cream, but they did it like a Chicago blues-rock called "It's Only Love". Blondwyn Pig is the number that reminded me of "Little Red Rooster" by the Stones. Modern Alchemist featured a great tenor sax with a jazz-rock-tune swirling around it. A "Change" was just that, with a simple country-folk beat (by my hypothesis, I promise) and played only with a violin and acoustic guitar for accompaniment.

I was greatly impressed with the saxophonist, who also played flute, who is part of the thing I've never seen before. The guitarist showed flashes of excellence, as did the drummer, but both failed to fight a peculiar p.a. system. The keyboard is one that can be said for spoken words. I know she was humping when kicked. Personally, I don't consider it necessary to try anything or think that they may be what is needed now; a really good group that isn't a super session.

The present state of affairs is harmful to undergraduates and is not all feasible particularly to the underclassmen. An immature but intelligent young man can easily, on his own or with minimal help, acquire a collection of disconnected facts and ideas. But true education goes beyond that— it involves organizing these disconnected facts and ideas, and developing the ability to be able to distinguish between the useful and the useless, the true and the false, the important and the trivial. It is largely the result of experience, advice and trial. In my laboratory there is a student for whom students with this ability will always be able to distinguish between the true and the false. This kind of contact is lacking between the faculty and the undergraduates. Thus, the inadequacy of the Grad­uate Teaching Assistants is discouraging.

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Do You Want Teacher Education in Your Schools?

by Alan Lederman

In this age of packaged goods, theater-goers are being exposed to an increasing volume of packaged entertainments. These typically are marketed by large Eastern agencies and dominated throughout the country. The quality of these packages is very often low; an example in point was the package called Lillian Gish And The Movies presented Saturday at Beckman Auditorium. Miss Gish was perhaps the leading American actress during the birth and adolescence of American cinema, from 1910-1928. She work­ed with D. W. Griffith, and was familiar with the significant figures in cinema at that time. Reminiscence

I envision that an executive at Entertainment Media, Inc. has asked himself, "Why not borrow Gish from artistic oblivion, package a film program with herself as narrator. Everyone enjoys old movies; many over-50's will pay to see her and reminisce. And with the new interest in cinema in an art form, we can include some technical detail and attract some young people as well. And some middle-aged people will come to be entertained. General appeal. After all, we're in this business to make money." To make money, not to create great entertainment.

Overenthusiastic and disorganized, Miss Gish fell into the trap by presenting one has only one face to the world. This was done by means of films chosen primarily for superficial audience enjoyment. Unfortunately, by implication these shots were not the most revealing in terms of historical significance, nor in terms of technical information. In fact, despite the use of a Keystone-Cop type of trivia, the most significant film of adolescent American cinema, Griffith's In Old Age was not shown at all. Needless to say, the film is a valuable commodity, the unbridled interest in cinema at that time. The above are only raw, one who already possesses it. This kind of contact is lacking between the faculty and the undergraduates. Thus, the inadequacy of the Graduate Teaching Assistants is discouraging.

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by Leonidas Guibas

Below is the main body of a letter I sent to Dr. J. H. Richards, chairman of the faculty vote today committee, thanking him for the financial contribution to my travelling expenses this past summer.

[continued]

In France the situation is quite different. Actually I can speak only of Paris because that is the only city I stayed in. All three schools I visited were inside the city, at the Quartier Latin. Although impressive buildings they were not particularly beautiful. Only formal instruction is given at these schools; students are expected to accost themselves either independently in the city or at the Cité Universitaire, a huge complex of dormitories quite far from the schools. At the time I was there the schools were not functioning, but in the papers there were often reports about reforms in higher education. These reforms were originated after the events of May 1968 (incidentally there were numerous policemen in the streets around the universities much more like the American feeling is quite strong. In this area one can never get too far from an anti-Vietnam sign with the word Nixon spelled with a swastika instead of an x. Another regretful aspect of this period is the division among groups with similar ideas.

One day I was walking around the Sorbonne trying to find some people who would be rather hard because it was summertime and moreover French students are not anxious to help foreigners. I finally ran into a conversation. A student, calling himself a student of a university, told me some other students the aim of the student union was...tivity and political colored. From the extensive “Action Francaise” to the hundreds of leftist groups, one can find all shades of color, all political ideologies, represented. The situation of the student part of town form a strange amalgam of political opinion. Anti-American feeling is quite strong. In this area one can never get too far from an anti-Vietnam sign with the word Nixon spelled with a swastika instead of an x. Another regretful aspect of this period is the division among groups with similar ideas.

I was half for a moment and thought I should be rather hard because it was summertime and moreover French students are not anxious to help foreigners. I finally ran into a conversation. A student, calling himself a student of a university, told me some other students the aim of the student union was...tivity and political colored. From the extensive “Action Francaise” to the hundreds of leftist groups, one can find all shades of color, all political ideologies, represented. The situation of the student part of town form a strange amalgam of political opinion. Anti-American feeling is quite strong. In this area one can never get too far from an anti-Vietnam sign with the word Nixon spelled with a swastika instead of an x. Another regretful aspect of this period is the division among groups with similar ideas.

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**Fleming Clinch Tie in Interhouse Softball With 4-2 Win Over Page**

by Mike Stefanko

If the New York Mets' playing style changes between this year and the next anything like the water polo team's style changed between Saturday's championship and Wednesday's game, the Mets will be much better off.

Both Page and Fleming had perfect records of four wins and no defeats prior to the game Tuesday. Fleming, with a 5-0 record up to Wednesday, plays Lloyd in its final contest. Page will face Ruddock in its last game in hopes of finishing with a 5-1 record and a possible tie for first if Lloyd can beat Fleming.

Fleming's pace had been slowed down after their great job they had done on Saturday. The Lloyd players lost to Page last week by just two points, 6-4, and there is a distinct possibility that they may be able to beat Fleming. However, Fleming definitely had the inside track to the softball championship as of the time when the paper went to press.

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**Variable Water Polo Squad Bows to LA State Before Beating UCSD**

by Richard Short

The Caltech football team played its best half of football this season against the Pomona College varsity here Saturday, according to head coach Tom Gutman. Mr. Gutman stated that eight men were playing on both offense and defense as the Beavers' toughest opponent thus far this year. With tiring players and lack of depth, the second half has always been critical for Caltech.

No team has ever scored more than one touchdown against the Beavers in the first half of play in 1969. In the game Saturday the Tech squad continued this record, allowing Pomona just seven points in the first half of play.

However, Pomona capitalized on several small mistakes as they scored the second half to score two touchdowns in the third period and three more in the final stanza to win 41-0.

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**Game Standings Through 10/21**

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**Pomona Erupts in 2nd Half To Bury Beavers 41-0**

by Stephen Hornor

On Wednesday, the 29th of October, along with the elections of class officers and IHC Chairman, there will be a referendum concerning a proposed amendment to the Articles of Incorporation. The reason for the amendment is a needed modification of our tax status, so that we may receive tax-free grants from foundations. We are officially nonprofit, but since which we are exempted does not allow us to receive grants without paying income taxes on them. With the inclusion of the proposed amendment, we will come under Section 501(c)(3) of the Internal Revenue Code, which will enable us to avoid those tax payments. We have escaped such payments in the past by the fact that the grants either were given by governmental agencies (which tend to ignore the law) or were given to the Institute and transferred to ASCIT by a rather dubious process.

The proposed amendment's actual purpose is to clarify the non-profit nature of the corporation. Technically, we are not incorporated as a non-profit corporation in that there is no provision for the distribution of assets should ASCIT be dissolved, and we are given by government (or corporate foundations) directly to the Institute. The Section specifies that we must turn our assets over to another non-profit organization exempt under Section 501(c)(3), for example, the Institute.

Please vote “YES.” Text of Proposed Amendment: Upon the dissolution or winding up of this corporation, after paying or adequately providing for the debts and obligations of this corporation, and after the remaining assets shall be distributed to a nonprofit fund, foundation, or corporation which is organized and operated exclusively for charitable, educational, religious, and/or scientific purposes, and which has established its tax-exempt status as an organization described in Section 501(c)(3) of the Internal Revenue Code.
HELP WANTED
STAFF

Great opportunities available for eager young reporters capable of writing large quantities of news. News does not need any basis in fact — only to fill space.

Earn graft, corruption, fame, fortune.

See your name in print

Prevent stupid space filler like this

---

You’ll find a future at Philco-Ford

Your future will be as bold and as bright as your imagination and ambition make it.

Your future will be as challenging as your assignments...and you might work on anything from satellites to communications systems, to microelectronics, to home entertainment or appliances. It’s your chance to be as good as you want to be. You will build an experience bank that will prepare you for many opportunities.

Your future begins by meeting our representatives when they visit your campus. Or write to College Relations, Philco-Ford Corporation, C & Tioga Streets, Philadelphia, Pa. 19134

PHILCO-FORD WILL BE HERE ON Friday, November 14, 1969

The Better Idea People In Your Future
An Equal Opportunity Employer
Support the Coffeehouse

Here's the headline—now where's the article?

—Anonymous headline writer

Venture: Use a love call to count bacteria.

The lampyridae beetle family, Delight of small boys, Biological light bulb. And prime source of raw material for another Du Pont innovation.

Luciferase, an enzymatic protein with intriguing properties, obtainable only from fireflies. Luciferin, an organic molecule also found in fireflies, but synthetizable. Adenosine triphosphate (ATP), a common energy-yielding substance found in all living cells.

Those are the three main ingredients in lampyridae's love light. And because ATP is common to all living cells, university researchers discovered they could produce an artificial glow by mixing luciferin and luciferase wherever life is present.

Noting that phenomenon, Du Pont scientists and engineers went on to develop it into a practical analytical system. Correlating the intensity of the artificial "glow" with the amount of ATP present in bacteria, they designed a means of measuring the reaction.

The result is the luminescence biometer—the first really basic instrument of the future. This is the venture Du Pont people are engaged in. You can become one of them, and advance professionally in your chosen field. See your Du Pont Recruiter. Or send us the coupon.

Umlauts über Alles

U. of N. to Run G. I. Certificates On Computers

The University of Nebraska at Lincoln has informed the Veterans Administration it is computerizing G. I. education certificates to speed up payday for enrolled veterans.

The University said all students enrolled under the G. I. Bill will henceforth have their certificates of eligibility transferred to the computer process for a "one-day" run-through for mailing to VA regional offices.

VA cannot prepare G. I. educational allowance checks until it receives the enrollment certification from schools. At most educational institutions these are hand processed for forwarding to VA and are often misplaced temporarily.

At Lincoln, University officials believe now confident the computer will speed up the whole process of reporting and, in turn, speed up VA checks eagerly awaited each month by G. I. students. The VA hopes so and requires students to turn in their certificates of eligibility so the computers can get to work.

NOTICE

Under the new bill which is being considered by Governor Reagan, stating that Topless - Semi Nudity - Complete Nudity entertainment will be left up to the adult people of the community.

The HI LIFE (1758 E. Colorado Blvd.) is now condoning a poll to find out what the adult people of Pasadena want to see as entertainment. We would like you to express your opinion by voting at our Private Ballot Box at the HI Life. Then we will be able to give you the type of entertainment you want to see.

All Three Types of Entertainment are being shown daily to help you decide the type of entertainment you want. Thank you.

HI LIFE
1758 E. Colorado Blvd.
Pasadena, Calif.

Over 21 entertainment

Best bottomless entertainment in Pasadena

Venture: Use a love call to count bacteria.

The lampyridae beetle family, Delight of small boys, Biological light bulb. And prime source of raw material for another Du Pont innovation.

Luciferase, an enzymatic protein with intriguing properties, obtainable only from fireflies. Luciferin, an organic molecule also found in fireflies, but synthetizable. Adenosine triphosphate (ATP), a common energy-yielding substance found in all living cells.

Those are the three main ingredients in lampyridae's love light. And because ATP is common to all living cells, university researchers discovered they could produce an artificial glow by mixing luciferin and luciferase wherever life is present.

Noting that phenomenon, Du Pont scientists and engineers went on to develop it into a practical analytical system. Correlating the intensity of the artificial "glow" with the amount of ATP present in bacteria, they designed a means of measuring the reaction.

The result is the luminescence biometer—the first really basic improvement in bacteria-counting methods since the time of Louis Pasteur. Rather than waiting days for a culture to demonstrate growth, a doctor or technician can now get a digital readout of bacteria concentration in a matter of minutes.

Other potentially lifesaving uses for the biometer are being suggested every day—such as diagnosing metabolic rates, enzyme deficiencies and nerve damage.

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