

Olaf Frodsham and Dr. Howard Swan

photo by Stein

Ae 241

Systems Engineering at JPL

by Paul Levin

Dr. William Pickering, director of JPL, devoted this week's Systems Engineering lecture to the practical aspects of the systems approach. While the Jet Propulsion Laboratory has been traditionally associated with aeronautics and space projects, it has recently branched into society-oriented projects.

Today Jet Propulsion Laboratory has two major projects outside of the aerospace field. In conjunction with the Department of Transportation it is supervising the design of an experimental mass-transit system for West Virginia University and neighboring Morgantown, W. Va. The system is being designed from the ground up so that it will be fully automated and consistent with the most modern designs. Although the inter-relationships between the people and the machines are extremely important, this is still a project dealing with machines and which has definite goals.

A much more ambitious project is a plan to integrate all of the medical services in the Watts district. Centering about the Martin Luther King Hospital, the plan

would cover everything from ambulances to house-to-house medical service. The great problems center about the lack of defined goals, the lack of real knowledge of needs, and the lack of knowledge in general.

Dr. Pickering concluded that because of the non-quantifiable nature of the goals and objectives of civil systems, the application of the systems approach will be more difficult in these areas.

News Briefs

Four Faculty Made Academy Members

On Tuesday four members of the Caltech faculty were elected to the National Academy of Sciences. They are Harry B. Gray, chemistry; Arie J. Haagen-Smit, bio-organic chemistry; Hans W. Liepman, aeronautics; and Gerald J. Wasserburg, geology.

New Officers Selected for Graduate Student Council

The new officers of the Graduate Student Council are: George Purcell, Chairman; Paul Schecter, Vice Chair-

Eleven Glee Clubs Invade Tech for Song Fest

by Paul Levin

Anyone running around the campus Saturday afternoon or evening must have sensed that something big was happening. The Winnett Lounge was missing its furniture, Chandler Dining Hall was closed, dinner wasn't being served in the new houses and the whole place was teeming with outsiders. These foreign students were, for the most part, dressed differently. It was nothing more (or less) than the Pacific Southwest Intercollegiate Choral Festival.

The outside students were the members of eleven of the best glee clubs in Southern California: Biola, California Lutheran College, California State Colleges at Fullerton, Long Beach, and Los Angeles, the Claremont Colleges, Loyola, Mount Saint Mary's, Occidental and USC. They began arriving that afternoon

to warm up in Beckman Auditorium before the big evening concert in which they would perform for their peers.

Blark! It's Saturday After Dinner

It was the host glee club's responsibility to feed these six hundred guests, so in desperation they turned to Food Service. So great were their number that it took Lloyd, Page, and Ruddock dining rooms in addition to Chandler to seat all of them. While the dining facilities were more elegant than those for the preceding two festivals, the food (B&G) was nothing to brag about. After feasting on cold potatoes, tossed salad, burnt chicken, and plain Jello (at \$3.75 a head!) Dr. Christy welcomed all of the singers and directors to Caltech.

Dr. Christy's speech was followed by a testimonial for Dr. Howard Swan, director of the Occidental

Glee Club since 1934, who is retiring in June. Dr. Richard Gilman, the President of Occidental, praised Swan's untiring efforts on behalf of the school and of his great teaching ability. Father Trame, Vice President of Loyola, then presented Dr. Swan with a plaque and a gift on behalf of the Choral Association.

Pep Talk

In accepting these, Dr. Swan said that the one thing everyone there possessed was a deep affection for music, especially choral music. He said that it really warmed his heart when a group sang from their hearts, so he hoped everyone would perform that way later in the evening. The dinner portion of the evening concluded with several Hawaiian numbers, including the male hula, done by Caltech Glee Club and with the selection of the

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Number 26

Reforms in Humanities; Freshman Courses Are No More

by Phil Neches

Freshman humanities courses, English 1, and English 7 will join the growing list of educational anachronisms next year according to Dr. Huttenback, Acting Chairman of the Division of Humanities. Also, advanced placement test scores will be accepted for the first time and retroactive credit for first year languages will be given for successfully completing the second year, he said in announcing a sweeping set of reforms within the Humanities division.

Instead of restricting freshmen to

four freshman humanities courses as is presently done, future freshmen will be able to select any "beginning" course (one numbered under 100). Of course, upperclassmen will also be able to take these courses. Passing a beginning course would be a prerequisite for an advanced course (one numbered 100 or above) in the same field.

AP Credit Given

Advanced placement, meaning being excused from taking beginning courses before taking advanced courses, will be available starting next year in English, American History, and European History. A score of 4 or 5 on the appropriate CEEB Advanced Placement test is required.

The Institute requirement of 108 units in humanities and social sciences will remain. However, a student must take at least 54 of those units in the humanities (history, English, etc.) as opposed to social sciences (economics, psychology, etc.). Of the 54 units in the humanities, at least 27 must be taken in English. With English 1 and 7 abolished, freshmen who take English will not have to take an

additional 9 units of English, as now required.

Retroactive

In addition, students who complete a second year of a foreign language will receive humanities credit for both years. Languages remain "a double-or-nothing proposition," however.

With changes in formal requirements increasing in frequency, "Each sophomore class should think they got here two years early," said Huttenback.

The Humanities division has plans for several interesting courses for next year well worth keeping in mind during pre-registration (which is coming up in about two and a half weeks).

Coursing Through

Robert Kelley, to be both a poet-in-residence and an associate professor of English, will give a course on modern poetry. William Agee, curator of the Pasadena Art Museum, will give a course in modern art history.

A course in modern China will be offered second and third terms. Dr. Bates will not be teaching next year, however, his wife will take over his classes.

Nine Runs Unearned

Beavers Fall to LA Baptist

by John Tristano

Nine unearned runs crossed the plate during the first two innings of the game as the Beavers gave a game away to LA Baptist last Monday. The team cannot be blamed for the costly errors though, as the entire infield (with the sole exception of the shortstop who arrived late and missed the big shuffle) were playing unfamiliar positions.

The Beavers scored a total of three runs, two by Tech's all-League candidate T*O*M H*O*W*E*L*L, but they had opportunities to score more. In the first inning, Howell led off with a single, and shortstop Bob Pleva doubled scoring Howell. Pleva went to third on Ken Hansen's

single. (Hansen is Tech's first baseman who was playing center-field at the time). Hansen stole second setting two men in scoring position. The rally ended with a mixup as with two down and two strikes on the batter Bruce Johnson, Pleva tried to steal home. Johnson did an amazing job of hitting the ball without killing Pleva, but the dribbler to first was an easy play after Johnson was clobbered at the plate by the charging Pleva.

Tech's other runs came in the ninth inning when Tristano worked the pitcher for a walk and Howell blasted a homer to deep right field. Although the final score was 11-3 eliminating the 9 run fiasco the Beavers had it won 3-2.

Amateur Radio Club Meeting

There will be a meeting of the Amateur Radio Club at 7:30 pm on Monday in Clubroom 2. A decision about a new transmitter will be made.

Northwestern Offers PhD in Management

Dr. Robert E. Machol, Professor of Systems, Graduate School of Management, Northwestern University, will be on campus May 4 to interview students for Northwestern's Ph.D. program in management. Dr. Machol is interested in talking to juniors, seniors, and grad students concerning enrollment in the management program starting September of 1971 or 1972. The interviews will be held in the Athenaeum library from 1:00 pm to 4:30 pm on Tuesday, May 4. Appointments may be made by calling Eleanor Granert at the Industrial Relations Center, ext. 1041.

AFS and Peace Action Council to Hold Draft Discussions

On Monday, May 3rd, the Pasadena and L.A. draft boards will become "peace centers for a day". The American Friends Service Committee and the Peace Action Council are setting up tables with information on draft repeal, draft resistance, and the war in front of the local Selective Service offices. Cookies and punch will be available for all. Individuals who are registered with the Pasadena draft board are urged to go to the board office on May 3rd, request to see their own files, authorize friends (via authorization letters) to see their files, and talk to the draft board clerks about the immorality and injustice of the war, the present draft system, etc. The emphasis of

the day will be on peaceful interaction.

There will be a training session for all people interested in manning tables, and leading and monitoring the day's activities. The training session will be held this Saturday, May 1st, from 7 pm to 10 pm at the American Friends Service Committee, 980 N. Fair Oaks, Pasadena. Any questions can be directed to the AFSC office: 791-1978, or to Bob Abarbanel, Mike Turner, Lorne Schachter (Fleming), John Cross (Biology), or Marcy Beck (Blacker). Meanwhile, everyone is invited to come to the Pasadena Selective Service Office, 2091 E. Colorado Boulevard on Monday, May 3rd, anytime from 8 am through 4:30 pm to discuss the war and the draft.

Throop Beat

Throop to be Evacuated

by millikan troll

The administration will be moving out of Throop, probably this summer. Most will move next door to Dabney, recently decimated by the exodus of the Humanities department to Baxter. However, the president and his entourage may take over a floor of Millikan library.

To date, no definite plans have been made for Throop after moving everyone out. Studies indicate that the building, the oldest on campus, could be brought up to modern earthquake standards for about \$2.5 million. Other suggested possibilities include tearing down Throop and erecting a new administration building on the site. Another proposal would see Throop razed and a new, more rationally designed, library built on the spot, with Millikan converted to an administrative office building.

Unairconditionable

Some of the prospective moves regard the possibility of moving to Dabney in midsummer with faint horror. Built in 1920, Dabney has no air conditioning, and the casement windows make it difficult to put in single-room air conditioners. Besides, the tile floors and plaster walls and ceilings could lead to a major noise problem in secretarial offices.

But the need to evacuate Throop cannot be disputed: how would it look if the administration building of the school with the finest Geology department in the country

collapsed on its inhabitants?

Top of the Week

Worried about summer jobs? See the people in Placement (24 Throop). . . Interested in using the student garage to work on your car? See Bob Spenser in Fleming House for details. . . Congratulations to newly-appointed ASCIT officers, including Alan Lewis (Gamerom Chairman), Marion Movious and Debbie Dison (Elections Chairwomen), Phil Neches (little t), and the Excomm of Seita, Whitcomb, Tucker, Price, Roberts, Schoerter, Collins and Davis.

The Board of Trustees holds its annual on-campus national meeting here May 10th. . . Remember the Baxter Festival! (It's sooner than you think and later than you know). . . Non-ASCIT members will now have to pay double (\$1) to see ASCIT movies.

Extravaganza

This Saturday will witness the Genial Dean's Farewell to Arden House Bash. Dean Huttenback promises "beer, pizza, fun, and dancing girls—if any of the girls who happen to come dance." Arden House has been the official residence of first the Master and now the Dean of Students since the end of World War II. BYOM (Bring Your Own Mug) from 3:00 to 5:00 in the p.m.

This week's Etaoin Shrdlu Award goes to the inventor of midterms, a person with the combined charm and warmth of Edgar Allan Poe and the Marquis de Sade, may he rot (wherever he is).

Letters

Open Letter to Computing Center Head

Dear Sir:

I am an easygoing person, and it is very seldom that people succeed in irritating me (especially to the extent of making me waste time in editorializing); it only happens occasionally when someone exhibits the quality of being unfriendly or hostile without even having a healthy motive (as e.g. rivalry, greed, jealousy or fanaticism, which I can make allowances for out of the goodness of my heart). There is an excellent descriptive term for this quality which is current on campus, but I cannot use it, since profanity might impair the sincere tone that I am attempting to adopt in this epistle. Let us, instead, call such a person surly, bearing in mind that this substitute term does not clearly carry the overtones of meanness of soul which I must assign as the reason for their otherwise inexplicable behavior. My

thesis, Sir, is that Computing Center operators are surly.

Let me defend this contention by recounting the circumstances that stimulated my literary creativity. Early this afternoon I was working in the bowels of Booth, getting the normal turnaround time of 60-90 minutes and feeling at peace with the world. At some point, I had the unlucky inspiration of submitting simultaneously two programs that should be run sequentially; I therefore attached both of them to a special user's request: "Please run program A before program B".

About an hour later I checked for results, and found out that A had run and produced output, but the deck was missing; and there was no trace of B. I immediately asked the downstairs people to try and trace the wayward program. After a couple of calls that were not very

conclusive (nobody knew anything about it), the very kind lady that was helping me decided to go up and look for the deck personally.

About an hour later I checked again, and was told that deck B was upstairs and would be run as soon as A was done. I explained that A was already back (indeed, the deck

Continued on Page Three

Julius Eastman squeaks, moans, growls and roars at CONTEMPO 71



Eastman's genius "hits the listener like a collective shriek from Bedlam." -New York Times.

Sunday, May 2, Tuesday, May 4, 8:30 Tickets \$2-\$6, Music Center Box Office, 626-7211, most agencies. Students \$2 best available seat.



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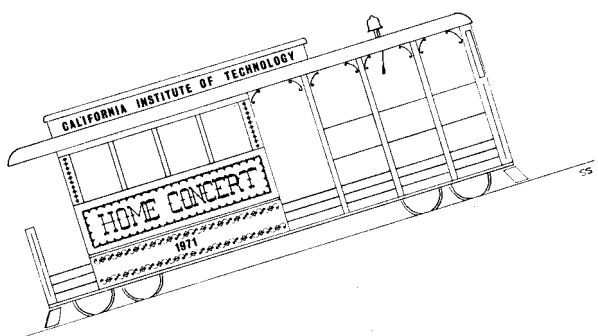
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THE CALTECH



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Returning refreshed and inspired from a tour of the San Francisco area, the Glee Club will feature visual highlights of the tour as a backdrop for their singing.

The traditional repertoire of polyphony, Gregorian chant, madrigals, quartet numbers, and spirituals, will again supplement our contemporary music.

Get your tickets now! Seats are available for either night! ASCIT members: get a ticket for your date!

To obtain tickets, see any Glee Club member, or stop by or mail the form below, with check or money order payable to CALTECH TICKET OFFICE, to the Caltech Ticket Office, 332-92, Caltech, Pasadena, CA 91109.

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Table with columns for ticket types (General Admission, Caltech Personnel, All Students, ASCIT members) and prices, and a section for ordering with dates (May 14 & 15, 1971, 8:30 p.m.) and a 'Please send me:' section with checkboxes for Friday and Saturday.

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The CALIFORNIA Tech

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Photographers..... John Belsher, Bill Loucks, Ken Mills, A. J. Owens, Alan Stein.

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Surly Computer Operators Too Much

Continued from Page Two
 had now shown up!), and there was another downstairs-to-upstairs call, as a result of which program B was loaded. About a quarter of an hour later I happened to glance at the display, and found out that B was on "special hold". I had to bother the kind lady again, and I was told that I had better check with the upstairs operators myself; for the first time I also got a hint that all

this was not solely the result of common or garden incompetence and/or bad luck.

Taking the suggestion, I went up and picked into the computer room where an operator, after finding out I had a complaint, told me I should go outside and ask the secretary about seeing an operator, since being in the computer room was bad form. His manner was not friendly. I humored him, went out, and pleaded with the lovely secretary for an interview with an operator. After some fancy work with the loudspeakers, the same operator came out and asked whether he could help me. I explained the situation, and begged him to go take the program off "hold" immediately, before he forgot. He informed me that operators disliked special requests in the afternoon, would not guarantee any turnaround time on them, and that my program would probably be run by 6:00; it was then four o'clock or so. The program was

indeed taken off "hold" and run a little after six, as advertised.

I now know that operators do not like special requests in the afternoon. I found out as of 4:00 today. What I still do not understand is (a) why I wasn't told on submitting the decks; (b) why, after telling me at four, the operators felt compelled to drive the point home by deliberately not running the deck until six o'clock. I must attribute the latter to surliness, as defined above.

I have a suggestion to make; as a matter of fact, I was going to express myself through the suggestion box in downstairs Booth, before I decided to register indignation in public: Operators should be either competent (so that e.g. they are able to run two jobs in sequence even when very busy, and we stay oblivious of their surliness), or good-mannered towards the customers. Deficiency in both qualities is a bit too much.

Sincerely,
 Pericles L. Nicolaidis

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CHORAL FESTIVAL

Continued from Page One

singing order.
 For those who weren't exhausted by the time the Festival was over, the Glee Club had planned a dance for afterwards. Almost a third of the singers stayed for it. This was the forty-first Festival, and in spite of the food, it was probably the best.

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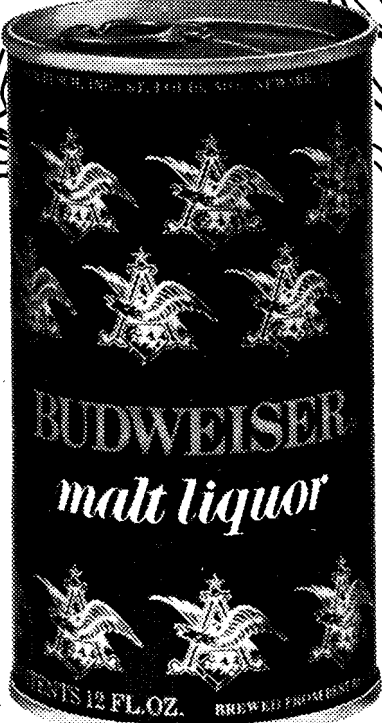
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