Lord Rosholme Urges Changes In Education

by Jeff Hecht

At the closing session of the 75th anniversary Conference, Lord Rosholme, vice-chancellor of the University of York, England, laid out his blueprint for reform of the system of education. In his introduction Presi­dential DuBridge thanked all those who made the Anniversary celebration possible.

Lord James spoke of the neces­sity of synthesis in order to make the bulk of knowledge manageable. Society must de­velop a system for recognizing individuals whose minds are capable of generalization, and a system for developing institu­tions capable of educating them. This must be done before so­ciety itself begins to reform. These and "essential paradox of general education," in which the growth of knowledge in each field de­mands that students be taught fewer subjects while they really ought to be taught more.

Social mission

Education must prepare av­erage students to live in and understand a science-dominated world. Alteration in the educa­tion of scientist is needed in order to offer the students a chance to social, political, and moral p roblems. With the great challenge of society occurring in our world, adult education, both professional and non-profes­sional, must improve.

These necessities will force educators to face some truths they have long sought to evade. Most students will have to learn to function in nay a fields other than their specialty, simply because it will not be enough time to teach everything thoroughly. Yet science must learn the value of art, the humanities, and the liberal arts, while the musicians learn the place of science, all through contact between pupil and teacher.

The time has come, also, for a rethinking of the meaning of research. Too much energy is wasted on the pursuit of worth­less science. If we are ever to avoid the muck at least once. The NCUE will be named, is a "In the case of the foreign, the losers trying to vent their strength will find the losers

Grades Statistics Favor Humanities Over Sciences

Should Caltech become a uni­versity? How important are the humanities? How do humanities fit in with engineering, the sciences, and other questions are prevalent to­day. One aspect of the human­ities at Caltech is the fact that Teckers do in humanities courses, progressing to science and engineering. After a long study, the secret is now out; overreach, narrow-min­ded Teckers actually are perform­ing better in humanities classes.

The source of information from which this conclusion was made is a collection of sheets showing the distribution of Grades" for the first term in each of the following academic years: 1960-1961, 1961-1962, 1962-1963, 1964-1965, and 1965-1966 (1966-1967 was not available). To give a more general idea of how grades in different subjects ranged, some subjects were excerpted from the study. Since not enough people took it upon themselves to take Aerospace Studies (Air Force ROTC), Civil Engineering, Government, Hydraulics, Jet Propulsion, Mat­erials Science, Music and Graph­ics (remember freshmen, your P's and F's don't count), their efforts have gone to waste as well.

For the remaining courses we followed a simple but tedious method. We drew the sheets with the number of units for a sub­ject of A's, B's, C's, and F's. It was necessary to find just the number of units of each grade. For example, 88 sophomores took 702 units of geology dur­ing

Humanities Win Spot In the Sun

by Benson

Having spent large sums of money and many man-hours of labor in an attempt to improve education in cultural matters, the university administration unfortunately en­countered the difficulty that it under­grasses the opportunity to improve by dismissing classes for the week. However, the Tech fore­saw the problem and sent a select few of the students, profes­sive staff (two sleepy Frosh and Men) on hand Thurs­day morning for the three in­teresting speeches delivered be­fore lunch, and the even more involved discussions after lunch.

Thursday morning's program covered education in the topic of "Science and Society," the In­stitute's contribution to the Hu­manities Department. The fact that none of the Caltech faculty participated in the program testifies to the school's interna­tional reputation in the liberal arts, but the three speakers were excellent.

The BIF Invades "Frosh's" Memorial Issue

by Dr. Halff Stetheim, Chairman of the Division of Humanities, Professor of Romance Languages of the School of Social Studies at the University of Illinois, Spedal Van Men, emerged from the stifling, for the opening ad­dress, Dominic Simon Miller. I am happy to say, and succeed. I think at the very least the tradition of Don Price called the minor prophets, inferior to the major. The students who had proceeded them on the stages, only In length of pub­lished work "We are the winners! Are the Urgent Problems?" were Drs. James Boswell, Robert Mann, Simon Ramsey, and Karl Kayoun.

The Thursday afternoon ses­sion of the grand Convocation featured what Chairman Don Price called the minor prophets, inferior to the major. The students who had proceeded them on the stages, only In length of pub­lished work "We are the winners! Are the Urgent Problems?" were Drs. James Boswell, Robert Mann, Simon Ramsey, and Karl Kayoun.

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Let us take a closed look at the Monday Convocation. Mr. Olaf Froshdham, director of the Glee Club, received a letter this week concerning the sound system at the Convocation. The letter was from the president of Custom Fluidity Records which made last year’s excellent Glee Club recording. The Glee Club had hoped to record its performance at the Convocation and had asked Custom Fluidity to do this.

The man in charge of the Beckman sound crew refused to let the professional recording be made on the pretext that trucks would have to be mobilized to accomplish the feat. Our firm would have easily been able to have hidden all microphones and recording equipment at almost any place in or outside of the auditorium. The instrumental parts would have been left entirely to the recording company.

The Beckman crew offered to make its tapes of the event available to use for this year’s Glee Club record. The tapes were, however, unplayable due to the trouble in the system, are totally useless. In fact, no tape of the main speaker, Secretary Gardner, exists. Even if there had been such a tape, the Beckman tape, recorded in monaural at 3.5 feet per second, would have been worthless for a record.

On the other hand, the company could have made a “fully professional” recording of the entire Convocation for guaranteed bookings at the cost of the tape. If the Beckman crew lacked the proper microphones, these microphones could have been rented from Audio Engineering Associates for $15 including boom stands and microphones. They would also have been willing to drive the speaker system, amplifiers and recorders to insure the success of the program.

Perhaps the Beckman auditor is not competent enough to realize that something is wrong. (Chad and Jeremy noticed the lack of vocal amplification before the technicians did.) Perhaps they are too stubborn to admit that they had failed. They should have had the funds the need to do the job properly.

Whatever the case, something should be done soon to correct the problem. There are many important events bemedled by overly displays of professionalism.

Don Friesen, President, Caltech Glee Club

Assault Jingle

“With once was an administration

there once was an administration

With parking, not coffee, did action

They said, “Let’s not quarrel; Why, coffee’s immoral—

Just drunk it; assisted each other.

Submitted by the Apocalypse

rooms 3 and 4: Blacker House.

Patio’s Liquors

and Delicatessen

1073 E. California Blvd., 85-7671

Open to midnight, daily.

Keg Beer Party Supplies

GALA HOLLYWOOD PREMIERE NOVEMBER 9 AT 8:00 P.M.

OPEN NOV. 10 "WARRIOR HOLLYWOOD THEATRE

SEVEN ARTS

HOLLYWOOD PREMIERE NOVEMBER 9 AT 8:00 P.M.

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Kupperman Exposes Chemical Intimacies

by Cook

Dr. Aaron Kupperman presented an interesting lecture on "Chemical Reaction" this past Monday. He made the point that chemical reactions are all around us, and that in fact we are merelyconscious chemical factories. Although we have been able to describe the gross aspects of chemical reactions for a reasonably long time, it is only in the last few decades that we have understood the actual pathways of the simplest of reactions. He managed to keep the material on a reasonably complex level without spreading too much snow among the audience.

Hormone acid

The first example that he used was the reaction between chlorine and hydrogen. The setup was quite straightforward and consisted of a reaction chamber, a manometer, a light source, a light meter, a filter system, and a means for supplying hydrogen and chlorine. The experiment began with the introduction of a mixture of approximately equal quantities of chlorine and hydrogen into the chamber, causing a slight pressure rise. When blue light struck the chamber, the pressure rose and then fell gradually, indicating a reaction.

(Continued on page 4)

The Critical Ear

by Beale

Continued from page 1)

"At TRW, we are young enough not to be afraid of change.

George Matter, Manager, Space Vehicles Engineering Operations, TRW Systems

We encourage young engineers and scientists to go with us and to grow with us. There is no end to the technical capabilities of the systems TRW is developing for NASA and DOD. Our programs include manufacture of a global communications satellite system for Comsat, building the LEM descent engine, NASA's Interplanetary Pioneers, the Air Force's Nuclear Detection Satellite system, Gemini, Apollo, and post-Apollo programs.

Our biggest need is still for people who are able to think for themselves and who want to get ahead.

ASCIT Plans 1066 Invasion

"1066 and All That," an unusual ASCIT Assembly commemorating the 900th anniversary of the Norman Conquest of England and the 50th of the series of ASCIT Assemblies will enrage Culthe's pro-Celtic faction with its wit and humor, on Wednesday, November 30, at 8:15 p.m. when the Goldman Duo will perform music by Kola, Streivinsky, John, and Bartok.

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Our biggest need is still for people who are able to think for themselves and who want to get ahead.
The brightest flashes in the world of thought are incomplete until they have been proved to have their counterparts in the world of fact.

--John Tyndall
Comming: November 16, 1966

HUGHES RESEARCH LABORATORIES announce campus interviews for Electronics Engineers and Physicists receiving Ph.D. degree.

Current programs include:
- Ion Physics Research
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Contact your Placement Office to arrange a campus interview. Or write:

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Five in the Afternoon

By Mammy

In a maroon “suit of lights” and complete with boule haircut, “El Cordobes” took on two bulls in Tijuana Sunday and won both ears from one of them. Appearing with the most popular bullfighter in the world were two other matadors, one a boyish novillero and another a polished master.

Tijuana itself is always an experience, not always pleasant. The American customs authorities at the border never fail to forget any vestiges of consideration or politeness they may have had when assigned to TI, and exemplify the tyrannical civil servants that Gogol and Chekov pictured in their stories of imperial Russia. Their procedure is to grab selected suspicious characters as they pass the border, and somehow this reporter has always qualified as a suspicious character fit for imprisonment.

Beware the T.J. taxis

Once across the physical border, it takes a few minutes for the traveler to cross the psychological border between Mexico and the United States. If he takes a taxi into the center of town, the crossing of the frontier will probably occur as his taxi driver swoops through a stop sign and weaves a wildly path in the traffic of motorcars and narcotics. Five people are squeezed into each taxi, at 50 cents a head, at least ten per cent of which must go towards the repair of the taxi after the hard driving of a few weekends.

Lord James Delivers Coup de Grace

(Coontinued from page 4)

less truths buried deep in the mountain of a specialty. Scientists must establish criteria of importance because there are simply not enough people available to delve into even a fraction of the worthwhile options open to us. Further, not all minds should do research; some would be better used in reflection or teaching.

Humane values

Science and education together help protect against the destruction of human values. Scientists, devoted to truth and rationality, can combat propaganda and intolerance. Education can try to make men a little more rational and humane. Unlimited research in education, however, will not provide a series of simple answers for the problems of education in the future. The real need is more and better teachers who are willing to continue their own educations throughout their careers.

In evaluating Caltech, Lord James sees it as an institution devoted to producing men who are scientists of “a critical and responsible humanity.”

Merritt Willey

loves good conversation.

All he needs is an opener.
Whittier Too Fast For CIT Legmen; Mason, Cross Come In Second, Third

Led by roofing Lou Jones, the Whittier cross-country team nipped the Techers, 26-29, last Friday afternoon in Griffith Park. Two laps around an unmarked, mostly grass figure eight constituted the four-mile course.

At variance with his usual custom, Pete Cross of Caltech jumped into the lead right at the start, contesting the first position with Lou Jones and Hill Sucksdorff of Whittier. Jones, for the first mile or so, kept shouting, "Go Doug" and "Go Whit," and Mason of Caltech put in a few "Go Doug"s himself. Mason also contributed to his usual custom of fighting for the lead, hung well back in the pack for more than half of the race. For the first mile and a half, Cross, Jones, and Sucksdorff clumped together about fifty yards ahead of Mason, who ran with two Whittier men ("Doog" and "Whit" presumably). After the first lap (at about two and a half miles) Mason moved up to Cross and Jones, and Sucksdorff dropped back. With half a mile to go, Mason passed Cross, but Jones won the race in 21:57. Mason was second and Cross third; Mee was sixth and Stocker eighth.

Cross, who has been running an incredible number of miles per week, improved his time over the not-very-stimulating Griffith Park Course from the last time he ran there against Oxy. Mason ran the course slower than his previous time, but at least Cross and new boasts of having worked out for eleven days in a row. Cross, on the other hand, did 26 miles on Saturday alone.

Next week the Simogaters meet Pomona, led by tall, friendly, underneath Steve Rothe. The meet will take place on the Mount Sac course, which is always a pleasure to run. The dirt trail, which winds up and around a saddle-shaped hill, this year includes another hill with some wild hairpin turns on the way down.

TECH Stopped By La Verne

The football team lost a split decision last week to La Verne. La Verne scored 24 points in the first half and Caltech scored 8 in the second half. It wasn't enough.

The game started off poorly for the visitors when La Verne ran back the opening kickoff for 70 yards to put them on the twenty. They scored shortly thereafter. Then things were quiet until the second quarter.

La Verne picked up four more touchdowns in the second quarter. Most of their drives came on long runs. There was one 50-yard run that brought them up to the twenty and ended in a TD. La Verne passed very little.

Cought with pants down.

The first touchdown was clearly an embarrassment for Caltech. The coaching staff had warned the team to watch for the kick-off. True to form, the receiver took the ball and broke to his left. The rest of the La Verne squad moved to the left. The visitors fell for it and went after the receiver who then pulled a reverse and went for the seventy-yard run.

The only Tech touchdown came very late in the game and it was a quarterback sneak by Tom Burton. This was the first touchdown this year that hadn't been scored by Martin. However, Louie caught the pass for the two-point conversion.

Special delivery

Fumbles hurt the squad from Pasadena. Charles Cray, this year's candidate for super-fresh, fumbled on a kick-off return and the La Verne tackle grabbed the ball and went for a touchdown.

The team of Martin and Burton was also held quiet. Martin again was double and triple-teamed, but by now he expects it.

This week finds the squad travelling to Riverside for a Friday night game. In other action in the league over the weekend, Occidental beat Cal Lutheran 15-0.
Martin May Be Best End in League

“Martin is one of the best in the league. I think he’ll be one of the ends on the all-league team.” Like in the old days, Caltech has a football star, maybe two, three or even four of them; however the one that Coach Tom Gutman was talking about is Lonnie (Linus) Martin who was recently chosen SCIAC player-of-the-week.

Kilroyage

Right now Lonnie has assimilated over 700 yard-gained passing this year and with three games left has a good shot for 1000. He is first in the league right now, just ahead of Dundez of Fortinville.

Martin lettered three times in high school but never in football. (He didn’t even play). He was a two-year letterman in baseball and one-year in soccer. What does he contribute to his success at football to?

Lonnie is probably the best quarterback in the league. Obviously, he’s the best passer ... he has put a lot of inspiration into the team this year. It’s really been something?”

As it happens what he says is true. Lonnie is fortunate to have Harris throwing to him as Coach Gutman agrees. This might become evident this weekend against Riverside if Harris’s mysteriously swollen thigh keeps him out of action. However, Burton is not the whole answer.

According to Gutman, Lonnie “doesn’t bear football.” Where some ends worry more about getting tackled after the catch, Lonnie just jumps. In addition, Martin probably has the best moves in the league. When Fortinville double and triple teamed him it barely had an affect.

Two left free

The only thing Martin lacks is speed, in fact, the coaches think he may be the slowest in the league. Earlier it was reported in the Tech that Martin has outran two defenders for a touchdown. This turned out to be untrue. A couple of Linus’s teammates reported that the defenders had tripped each other.

Until last weekend, Martin had scored every touchdown this year. However, against La Verne Burton went over on a quarterback sneak and then threw to Martin for more points.

With two more years to go Martin stands a good chance to become one of the best ends the league has seen. He has a good quarterback and he has a team that is starting to get some real athletic spirit. Said Gutman, “The team will improve and Martin will improve with them.”

In addition to football, Martin plays both basketball and baseball. Last year, as a freshman, he was awarded the Alumni Trophy for his outstanding play as shortstop.

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See your Placement Office about an AC Electronics Div./AC-on-campus interview, or write to R.C. Schroeder, Dir. of Scientific & Professional Employment, Dept. 5753, Milwaukee, Wis. 53201.
Brave New World
(Continued from page 1)
should continue to recklessly increase in population, exhausting the easily accessible sources of minerals and fuels, and then collapse, it might be vastly harder, or even impossible, for future generations to recover from their 'dark ages.'

He continued, "The human mind has a natural tendency to avoid unpleasant thoughts such as these. Thus, the population explosion and the hydrogen bomb do not receive a fraction of the attention that they deserve ... The next 25 years, from today to this Institute's 100th anniversary, may be the most crucial ones in the history of man."

End of the family
Dr. Robert Morton, director of Cornell University's Division of Biological Sciences, concluded the session by discussing some of the dilemmas produced by our rapid advance in biology and sociology. He first asserted that the family will decline because "(1) The family is relatively poor at assimilating and transmitting new knowledge essential to survival in a rapidly moving world.

(2) Growing awareness of the equality of the family as the basic unit of human reproduction.

(3) Increasing knowledge of the plasticity of the human nervous system in early life will encourage further invasion of the home in the name of ensuring equality of opportunity."

"It is idle to talk of a society of equal opportunity as long as the society abandons its newcomers solely to their families for their most impressionable years." He was quick to add that "I am not advocating that the family be abolished," but merely pointing out the trends.

Starry-eyed idealist
Due to these dramatic changes in store for us, men will be forced to find new reasons for living. Without family ties, "Somehow people must be made to expand their sense of loyalty and responsibility to include a larger share of the human race."

And finally, Morton deplored the faddish and literary community's motions to 'stand aside like a Greek chorus chanting over and over again, 'see the unhappy man who can do nothing other than endure the existential suffering forced on him by a hostile and malformed society.'"

The session ended with a short question and answer period that covered topics from spontaneous generation to child raising. The discussion was well attended and well received.

In 1986
Halley's Comet will be dropping around again.*

Let's plan a big welcome.

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Delicatessen & Restaurant
LUNCHES DINNERS
CATERING
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1770 E. COLORADO BLVD.
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"Some people think computing is an extracurricular activity.
That's nonsense.
At TRW, computing is a career."

Make computing science your career at TRW, where we deal in the logic of obtaining numerical solutions to diverse technical problems: trajectories for space missions and actual space flights, post-flight analysis, spacecraft checkout and orbit monitoring, thermodynamics of spacecraft heating, aerodynamics of re-entry, structures of spacecraft and missiles, automated design of electronic circuits and mechanical systems, information retrieval, analysis of antisubmarine warfare systems, development of civil applications of information systems, and new computer software systems for time-sharing.

We need people who can solve problems, who are innovators. This is how TRW looks at computing.

TRW

"The next 25 years, from today to this Institute's 100th anniversary, may be the most crucial ones in the history of man."

End of the family
Dr. Robert Morton, director of Cornell University's Division of Biological Sciences, concluded the session by discussing some of the dilemmas produced by the rapid advance in biology and sociology. He first asserted that the family will decline because "(1) The family is relatively poor at assimilating and transmitting new knowledge essential to survival in a rapidly moving world.

(2) Growing awareness of the equality of the family as the basic unit of human reproduction.

(3) Increasing knowledge of the plasticity of the human nervous system in early life will encourage further invasion of the home in the name of ensuring equality of opportunity."

"It is idle to talk of a society of equal opportunity as long as the society abandons its newcomers solely to their families for their most impressionable years." He was quick to add that "I am not advocating that the family be abolished," but merely pointing out the trends.

Starry-eyed idealist
Due to these dramatic changes in store for us, men will be forced to find new reasons for living. Without family ties, "Somehow people must be made to expand their sense of loyalty and responsibility to include a larger share of the human race."

And finally, Morton deplored the faddish and literary community's motions to 'stand aside like a Greek chorus chanting over and over again, 'see the unhappy man who can do nothing other than endure the existential suffering forced on him by a hostile and malformed society.'"

The session ended with a short question and answer period that covered topics from spontaneous generation to child raising. The discussion was well attended and well received.

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