Millikan Library Rises up Campus.

by Tim Headrick

Von Braun Blasts off

Dr. Wernher von Braun, rocket scientist, will speak in Beckham tonight at 8:00 p.m. on "The Art of Decision Making in Launch Vehicle Development." Von Braun is the director of the NASA Marshall Space Flight Center in Huntsville Alabama. He is one of the developers of the Saturn V space vehicle project. Since he is a co-founder of the Marshall Space Flight Center, he has given the seminar the Saturn V has been launched 10 times out of ten tries.

In February, 1960, von Braun became director of the Department of Operations Division, Army Ballistic Missile Agency, in Huntsville, Alabama. He was director of the Army when he was asked to launch the first American earth satellite, Explorer 1. So he got the Explorer 1 in one hundred days.

Tickets are not necessary for the students and postgraduates. The students will have to pay for the ASCIT student body. The tickets for the ASCIT will be handed out to the ASCIT students and families. The students and families will have to pick up a Management Club badge at the Administration sometime before the lecture.

The Ad Hoc Committee on the No-Grades Policy, led by Dr. Ray D. Owen, chairman of the Biology Division, will meet tomorrow to discuss the results of the year 1964-65 in an effort to make enjoyable an otherwise tedious freshman year. The system has been in operation for two years; no the committee, argued with an imposing collection of stasticia and continuous, is now ready to make an evaluation of the experiment.

In an interview last week, Owen said he hoped the committee would engage upon some recommendation by this coming Monday, although the entire faculty would consider the recommendation in the beginning of May. Many of the results of no-grades are already familiar. The attrition rate dropped from 2% to 1.5% this year. The failures were also lessened: the failures were lessened: the losses were from the bottom of the class.
Meollion Philosophy

Now the Middle Ages knew God. They suffered enormously, the men of those times, and their religion made suffering the only way to get to heaven, achieving salvation and live in everlasting bliss. A poor serf, with only enough to eat himself and his family, had no chance of salvation unless the church should not disdain the rich, lordly Baron who indulged himself in wenching, wine, and wars. The serfs’ heaven may have been more remote than the Baron’s castle, but it was an integral part of his daily existence.

Today, Paradise, or at least material Paradise, is here. Look around—perhaps there are four per cent of the population without jobs, but everyone is better off than he ever was before. More important, the times are getting better for everyone, a trend which started with the Renaissance and continues into the indefinite future. We have or possibly the existence of having in the future every thing we could possibly want.

Interesting issues

The oppressed people of the world are not content to contemplate a distant afterlife which rewards their souls for their travails here on earth; they want our Paradise, and they are working hard to get it. In one third of the world, the Communists reach out for an economic heaven in exactly the same manner that the medieval Popes steered Europe to a Catholic one.

Where is our Christian God in this world dominated by stock tickers, however? Modern theology is about as convincing as death of God if it were a fairly recent event, but no one has had the old, true, unwavering faith since the Enlightenment, since the astronomers put the sun where the earth was said to be. The Church itself is, of course, just another political organization with a system of values which proceeds from a western technology. Scientific technology has resulted from the applications of the scientific method, and nowhere has belief in God been much of a help.

Public belief

In modern society, however much it owes to rational analysis, is still based on a system of values which proceeds from a belief in unreasonable justice. Charity, for one, is irrational. So is the belief in Recovery booms and all the other benevolences of our government, and the block holding up the entire pyramid is always labelled, “Fundamental Belief in God.”

Private

Individual action also requires some irrationality, and it is all the more important when everything else is increasingly imbibed in the Plenian Spring has left the majority of us with an unwavering faith in the power of God. It is misplaced when applied to life in general, for rationality is not the entirety of reality. Many times science students will expect to decide every decision in their lives to a rational choice; this is hopefully impossible. The only real result is a warped sense of values.

All too readily the Caltech student, fresh from intoxicatingly beautiful Caltech, is unappreciative of the English literature he learned in his mother’s lap. Too encompassingly does he condemn unreason and embrace pure, virgin Reason forevermore. Sometimes he learns too late how sterile said virgin is as a private religion. His enemies don’t learn at all. The public does well to take note of the one-sidedness of many scientists, even though it wrongly stereotypes us all as absent-minded geniuses. The freshman’s violent embrace of rationality is probably aided by the current, exciting, and educational benefit.

There’s more

Those decisions in life which reduce to a choice that can yield to a rational analysis are not decisions at all; the rational path should be taken without hesitation. The most important decision, the existentialists say all the decisions, are those which must be decided without recourse to reason. Suppose during World War II a Frenchman felt a need to fight in the Underground, but he knew that if he left home his mother would die of a broken heart. He must decide to stay with her, the choice is an irrational one. A Robert E. Lee would choose honor and duty, but such a choice would not help him at the end. Unreason comes in many forms, and an equally irrational love of all living things. One who acted only by Reason would be lost and confused.

Unreason is vital, a civilization based entirely upon Reason would dispense evil, and lack of emotion or humanity as well, both as an emotion and as a species. Pure reason is the only recourse in the sciences, but Robespierre’s Rule of Reason and his death by guillotine has not precisely applied to every facet of life. Let us as scientists strongly resist any attempt to seduce us as leaders down the primrose to a state ruled only by Logic, Manicist or otherwise. Let us in our personal lives retain a saving measure of unreason so vital, and human.

—Mike Moe
Thursday, April 14, 1965

Letter

Totem Damned

Editors:
The following is an excerpt from the mimeographed information given to applicants approaching the Gate of Heaven to be tested for entrance to .

"... The gate keeper (who should be addressed as 'Sir') will give you a machine-scored answer sheet and test booklet. There is no time limit on the test, so you may begin at once.

You must supply your own number of pencils . . . Applicants who have attended Caltech must also submit written proof of having done something worthwhile.

A couple of conclusions can be drawn from this information: 1) The one thing you should try to take with you is not money but a number of pencils. 2) Since reliable sources report that writing a short story or poem or anything literary satisfies the "worthwhile" requirement, it would be to your advantage to write something literary as soon as possible.

And since you've already written before April 20, why not vote for the next issue of Totem?

Dobson Rabinowitz

MILITARY COMMAND TECHNOLOGY

MITRE is chief technical advisor and systems engineer to the Air Force Systems Division of the Air Force Systems Command. In this capacity, we design and develop such global, computer-based systems as the NORAD Combat Operations Center and the Back-Up Interceptor Control System. Other commitments include development of a future air traffic control system and supporting the Defense Communications Agency in the development of the National Military Command System. We call this Military Command Technology.

For the young systems engineer, this is uniquely rewarding work. It requires a unique blend of technical expertise and practical experience.

If you are trained in a science or engineering field, you may be able to contribute to our program, or you may change your career plans to one with a broader base.

We offer you the opportunity to develop your capabilities professionally and academically.

At MITRE, men trained in similar disciplines are encouraged to grow beyond their original fields of interest. Systems designers learn to work from an increasingly broad base.

You may wish to apply in areas such as information theory, computer design, display techniques and propagation. You may analyze, you may synthesize. You may deal with systems or individual components. At the highest levels you may have to consider political, economic and social factors, as well as the available and predictable technology.

If you are a B.S., M.S., or Ph.D. in Electrical Engineering, Physics, or Mathematics and want more information regarding opportunities at MITRE, call James J. Gilson (617) 271-3925 or write in confidence to the College Relations Coordinator, The MITRE Corporation, Box 2883.

RULES FOR CAMPUS COMPETITION

1. The course to be followed will be the one recorded on your answer sheet and test booklet.

2. Any load must weigh a minimum of 70 pounds.

3. The device must be capable of being packed from a safe distance.

Park School Latin students invited to band contest in Indiana.

Editor's note: We're sorry, but if you're studying Balthus Galimard Casuarina, you must be sophomores in high school. Don't you know you can't compete so low as to compete against sophomores ignorant of even the Maxwell equations? Certainly, though, we hope our (gasp, gasp) "highly-advanced" student body takes you up on this offer.

Supercalifragilisticexpialidocious

By Parker

From Michigan State by way of Wochester Poly, we have a revision of the Twentieth Psalm which ought to comfort those who are four weeks behind already.

The Curve is my shepherd. I shall not want. It maketh me to sleep through physics lectures.

It leadeth me in the path of hard courses for prestige's sake.

Yea, tho' I walk through the valley of F's, I shall fear no draft. For the Curve is with me. The essential thing is that they comfort me. It prepareth a grade scale before me in the presence of the Administration. It annointeth my grade point with E's.

My honor points runneth over. Surely goodness and my transgression will follow me all the days of my life.

And I shall dwell in the house of the Curve forever. This must bring back to all present-day junks the two-cumulated tension being released after a dramatic catapult count-down be matched -- on any playing field, in any demonstration in any rift, in any space age rift.

Odd, all right. Clearly, the sophistication of cert. e, graduate student extended to you and to other highly-advanced student bodies, knowing that upon your acceptance we will drive ourselves to perfect our present machine and bring forth in true defiance. In no way can the satisfaction of watching accumulated tension being released after a dramatic catapult count-down be matched -- on any playing field, in any demonstration in any rift, in any space age rift.

On Beautiful Scars

On Beautiful Scars And Earth Tremors

A scar is a line, but if it is a slope, except possibly by faulty or eroded; a beautiful scar is also a line of cliffs or steps angles caused by faults or by erosion; a beautiful scar is also a line of steps or of cliffs caused by the erosional process, only in this case it is viewed by a geologist. Dr. Clarence R. Allen, professor of geology and geophysics at Caltech, displayed many examples of fine scars of erosion; or of cliffs; in conjunction with his Monday Night Lecture on "Great Earthquakes and Great Faults," this week at Beckman Auditorium.

"The Los Angeles area has many beautiful faults but, through prudence, the Chamber of Commerce has not publicized them." With this and other similar comments, Dr. Allen created an audience which permeated the auditorium throughout his lecture.

What is a richter scale? If two people stand on opposite sides of the fault plane, they both see the other move to the viewer's right. One person is in an open San Andreas fault which stretches along the coastal region of California.

When will scientists be able to predict this five feet achieved by our missiles? It is from the Hilltop to the north, the University of San Francisco, and from here we get a lot of beautiful things, lampooning all aspects of campus life. This is a jest about the time of the day: "will be the funniest thing since the invention of the wheel." No action was planned against the S.B.A. on this point.

Becker, Superintendent of Police for the first two years of the police force, was a female cow in a girl's dorm.

On Beautiful Scars And Earth Tremors

A scar is a line, but if it is a slope, except possibly by faulty or eroded; a beautiful scar is also a line of steps or of cliffs caused by the erosional process, only in this case it is viewed by a geologist. Dr. Clarence R. Allen, professor of geology and geophysics at Caltech, displayed many examples of fine scars of erosion; or of cliffs; in conjunction with his Monday Night Lecture on "Great Earthquakes and Great Faults," this week at Beckman Auditorium.

"The Los Angeles area has many beautiful scars but, through prudence, the Chamber of Commerce has not publicized them." With this and other similar comments, Dr. Allen created an audience which permeated the auditorium throughout his lecture.

What is a richter scale? If two people stand on opposite sides of the fault plane, they both see the other move to the viewer's right. One person is in an open San Andreas fault which stretches along the coastal region of California.

When will scientists be able to predict this five feet achieved by our missiles? It is from the Hilltop to the north, the University of San Francisco, and from here we get a lot of beautiful things, lampooning all aspects of campus life. This is a jest about the time of the day: "will be the funniest thing since the invention of the wheel." No action was planned against the S.B.A. on this point.

Becker, Superintendent of Police for the first two years of the police force, was a female cow in a girl's dorm.

On Beautiful Scars And Earth Tremors

A scar is a line, but if it is a slope, except possibly by faulty or eroded; a beautiful scar is also a line of steps or of cliffs caused by the erosional process, only in this case it is viewed by a geologist. Dr. Clarence R. Allen, professor of geology and geophysics at Caltech, displayed many examples of fine scars of erosion; or of cliffs; in conjunction with his Monday Night Lecture on "Great Earthquakes and Great Faults," this week at Beckman Auditorium.

"The Los Angeles area has many beautiful scars but, through prudence, the Chamber of Commerce has not publicized them." With this and other similar comments, Dr. Allen created an audience which permeated the auditorium throughout his lecture.

What is a richter scale? If two people stand on opposite sides of the fault plane, they both see the other move to the viewer's right. One person is in an open San Andreas fault which stretches along the coastal region of California.

When will scientists be able to predict this five feet achieved by our missiles? It is from the Hilltop to the north, the University of San Francisco, and from here we get a lot of beautiful things, lampooning all aspects of campus life. This is a jest about the time of the day: "will be the funniest thing since the invention of the wheel." No action was planned against the S.B.A. on this point.

Becker, Superintendent of Police for the first two years of the police force, was a female cow in a girl's dorm.

On Beautiful Scars And Earth Tremors

A scar is a line, but if it is a slope, except possibly by faulty or eroded; a beautiful scar is also a line of steps or of cliffs caused by the erosional process, only in this case it is viewed by a geologist. Dr. Clarence R. Allen, professor of geology and geophysics at Caltech, displayed many examples of fine scars of erosion; or of cliffs; in conjunction with his Monday Night Lecture on "Great Earthquakes and Great Faults," this week at Beckman Auditorium.

"The Los Angeles area has many beautiful scars but, through prudence, the Chamber of Commerce has not publicized them." With this and other similar comments, Dr. Allen created an audience which permeated the auditorium throughout his lecture.

What is a richter scale? If two people stand on opposite sides of the fault plane, they both see the other move to the viewer's right. One person is in an open San Andreas fault which stretches along the coastal region of California.

When will scientists be able to predict this five feet achieved by our missiles? It is from the Hilltop to the north, the University of San Francisco, and from here we get a lot of beautiful things, lampooning all aspects of campus life. This is a jest about the time of the day: "will be the funniest thing since the invention of the wheel." No action was planned against the S.B.A. on this point.

Becker, Superintendent of Police for the first two years of the police force, was a female cow in a girl's dorm.
Interhouse basketball started with a bang this week as two teams won by overwhelming scores and a third upset the fav- orites. Lloyd's defense completely stifled any offense the Scowls might have had. The Lodges played their non-defense very tight, nev- er allowing any of the opposition to get away free shots. They also stole the ball often which led to fast breaks and easy lay- ups. Grey Jennings completely dominated the backboards, there- by assisting off Ricketts even more. The scoring was led by Lloyd's Bob Vance with 15 points and Jennings with 10 more. Frank Potter managed to put in 10 points for a losing cause. The final score of 53-23 indicates that Lloyd has to be reckoned with in future games.

Upsets started off early this season as Fleming, considered one of the contenders, lost to Dabney 36-32. The Flemm's sorely missed their center, Cliff Tedder, who was an alias selection last year. With their rebounder gone, Fleming gave the ball to the oppo- nent too often to win. Dab- ney ran their patterns beautiful- ly, always setting up an open man and capitalizing on their op- portunities. The game was very even through the first half, with Fleming holding a slight edge throughout. In the third quarter, John Eyler made a couple of long jumpers to put Dabney behind, to stay. The Flemm, a fast team, fought back using running tactics, but a three-point play by Eyler in the last two minutes put the game out of reach. In the end DeBros won by keeping cool and not panicking at Fleming's repeat.
Darbs Beat Flem in Discobolus

Dabney outlasted Fleming in Discobolus basketball last Sunday afternoon by the score of 31-27. The game was hard fought but Dabney made a quick come­back after Fleming jumped out to an early lead behind the shooting of "Ele­phant" Rhodes and "Mule" Garen. Fleming took advantage of this early lead to get a quick start, and once Dabney got on top they struggled to get back into the game. Rhodes Labs looks for Warm Bods

Who said scientists are un­talented? All you Teckers now get ready to attend the biggest and most exciting baseball game of the year! The baseball team is losing; the baseball team is los­ing; the baseball team is losing. If you sing, dance, think you’re funny, or play a musical instru­ment, come on over to Blacker and see me. The price for entry is $20,000. “And besides,” quoth he, “if Xerox has to keep bosses, we’re going to have a real blast. We’ve got talent; all we need is your talent.” So get ready, bring your talent, and we’ll have a great time together.

Joe Rhodes

ASCIT Activities Chairman

Techn. He told me to write a funny paper for this article, which I am able to do, but I’m not sure if it’ll be in a bad way for space fillers if this qualifies. At first I wanted to do an interview of Dr. Dade and Dr. Prahl together, but then I did my little ego-irritable damage by saying that it was too important for me to do and told me to write “something funny”... How can I write something funny with all the trage­dy there is going on in these times? It hurts my mind. Losing; the baseball team is losing; the baseball team is losing; the squamish team is losing; and I

Joe Rhodes

ASCIT Activities Chairman

Techn. He told me to write a funny paper for this article, which I am able to do, but I’m not sure if it’ll be in a bad way for space fillers if this qualifies. At first I wanted to do an interview of Dr. Dade and Dr. Prahl together, but then I did my little ego-irritable damage by saying that it was too important for me to do and told me to write “something funny”... How can I write something funny with all the tragedy there is going on in these times? It hurts my mind. Losing; the baseball team is losing; the baseball team is losing; the squamish team is losing; and I
Last week's show at the Ash Grove was a refreshingly change from the usual slick, Kingston Trio type. The group usually plays around here at places like the Ice House.

The Bare Remnants Jug Band led off the evening, looking as if they had just come in from a hard day on the north forty. Jug band music is back-porch music; the performers play on anything they can find lying around the house, and the only thing the Bare Remnants were missing was somebody beating on a frying pan.

Floating kazoo

The rhythm section consisted of a washboard on which were tapped a candy in a cowbell, two bicycle horns and a bicycle bell. The whole megillah was tapped, scraped, squeezed and rung by a bearded professorial type with a thimble on each finger—all ten of them. He also occasionally played the harmonica when some of the others alternated on the washboard. For a bass section there were a gut-bucket and, of course, a jug, both played by the same Remnant. A guitar and a banjo supplied the actual music; there were also a slide whistle and three or four kazoos floating around.

Number 69

The Bare Remnants' repertoire varied from "a tender love song, Child Failed no. 306", which turned out to be "Meet Me by the Cockeyed Window", to the brazen "I've Just Seen a Face"; they also sang a version of "White Christmas" which was so soft and sickly-sweet that the guy on the washbowl nearly barfed. The best musician of the group was the banjo player; he was just there to have a good time. But if you have a car and can get there, it's well worth it.

The Bare Remnants' replica is a sort of Amazing Amalgamated Folk Music Emporium and General Store. In addition to musical entertainment, there is a music store which sells guitars, banjos, and miscellaneous; they also run a folk music school which offers fifteen different courses.

The music itself is top-notch; the performers are generally the big names and the big talents on the folk music circuit (this week's is Phil Ochs). Prices are a little stiff: $2 for admission and 55 cents for cokes. But if you have a car and can get there, it's well worth it.

With this one exception, GT&E holds the lead in remote control

We leave it up to the dexterity of youth to manipulate slot cars. But concede nothing to anyone in the matter of making machines act as they should without human intervention...even if they are separated by hundreds of miles.

The lead is supplied by two of GT&E's family of companies. Automatic Electric manufactures the control systems, and Automatic Electric the equipment to transmit the control signals over wires or microwave radio. In combination, the systems are used to automate gas and oil pipelines, electric utility complexes, and the operations of railroads.

The Contermin™ 2000 supervisory and control system—new from Automatic Electric—can report the status of 180 devices in as little as 290 seconds.

Lenkurt's new Journal Data Transmission transmits "hotbox" information instantly so railroad controllers may stop trains before costly accidents occur.

Automatic remote control is just one of many ways GT&E is serving the national interest. Our total activities are covered in a booklet you can obtain from your place of business.

Lenkurt, Inc.

Wednesday, April 14, 1966

CALIFORNIA TECH

Page Six

by Bone

Millican May Be Mountain Made from Molehill

(Continued from page 1)

tunately for the portality, which was good, but the general run of musical talent was not exactly overwhelming. They didn't make any pretensions, though; they were just there to have a good time. Dolly Parton, smiling.

We leave it up to the dexterity of youth to manipulate slot cars. But concede nothing to anyone in the matter of making machines act as they should without human intervention...even if they are separated by hundreds of miles.

The lead is supplied by two of GT&E's family of companies. Automatic Electric manufactures the control systems, and Automatic Electric the equipment to transmit the control signals over wires or microwave radio. In combination, the systems are used to automate gas and oil pipelines, electric utility complexes, and the operations of railroads.

The Contermin™ 2000 supervisory and control system—new from Automatic Electric—can report the status of 180 devices in as little as 290 seconds.

Lenkurt's new Journal Data Transmission transmits "hotbox" information instantly so railroad controllers may stop trains before costly accidents occur.

Automatic remote control is just one of many ways GT&E is serving the national interest. Our total activities are covered in a booklet you can obtain from your place of business.