Intriguing the Daneby audience with a rundown of the present advanced technological age, Dr. Simon Ramo began his three-day stay at Caltech as a visiting Professor of America. Ramo lectured yes­ terday at 4 p.m. in Beckman on the Atomic, Space or Electron­ ic Age.

Ramo started by noting the influence of public opinion on applied science. The age or era must be symbolized by a picture, and in the case of the electronic, space, and atomic ages, it has been nuclear with electrons zooming around it. This advanced technology got root around 1930, the year Ramo got his PhD from Caltech, when researchers discovered the proper­ ties of freed electrons flowing in streams inside metal rods, and opened the field of electronics. However, even with the high­ powered techniques for information handling now available, the elec­ tronics age has yet to reach its culmination.

Atomic, Space Ages

The atomic age was, of course, ushered in with the detonation of the first atomic bomb during WW II. All the electronics compa­ nies immediately sought an affiliation with the atomic or nuclear physicists; they hired physicists, changed their names, or built electronic components to handle the simpler clear systems. Presently, the space age is in line with all the manifestations evident: researches into a moon landing, rockets to Mars, and another government­al­ administrative department.

Despite the departures from electronics, Ramo still sees our age as the electronic age. In any age modern warfare—given equal armaments and transport capacities—will be decided by intelligence, command, and strategy, all now delegated largely to electronics. With ap­ parently no electronic technology, it is again the elec­ tronics component to dominate financial faci­ lities that is the major problem.

"Probably," Ramo stated, "unless we get visitors from another planet, the space age won't come till the year 2000 when our 24 hour day arrives. If and when you don't like this orbit, you can change to another.

In response to a question from the audience, Ramo said that it is because of a lack of adjust­ ment and social and moral readiness that changes in society do not follow in step with science and engineering advances. The glamorous aspects of an "age" of­ ten overpower the more subtle engineering advances. The glamorous aspects of an "age" of­ ten overpower the more subtle engineering advances.

Bach and Computers

In closing the session, Jim Peterson of the planning com­ mittee especially reminded students of the address Ramo will talk about today in Winnett entitled "Com­ puters, Creativity, and Bach." Registration continued tonight at the home of Dr. F. Nevin Fay, chairman of the division of engineering, 129 Arden Road, Pasadena.

Congratulations

Dr. Robert Oliver, professor of economics, is Caltech­ day's run-off election and is head of the Pasadena City Directors.

NOTICES

General admission is $1 for adults, $50 for students and chil­ dren. Tickets are available through the Caltech Amateur Radio Club, Clubhouse especially reminded students, all residents of Pasadena.

Ramtownship Air Aias

Described by various US critics as "mouthing the heart strings of every listener," "dazzling the ears of the audience to frenzied jubilation," "tongues in solemn unison."

SCHWARTZKOPF

Choices Lacking in Vietnam

The Caltech Amateur Radio Club will have a meeting at 7:30 in Chandler next Thursday before the ASCIT offices open.

Applications for the following summer fellowships should be submitted in writing to Fred Lamb, 204 Ruddick, no later than noon on Monday, April 19. These fellowships are the Darkroom Chairman, Election Com­ mittee Chairman, Big T Business Manager, Executive Education Policies Committee, Yell Leader, Student Assembly, and Assembly Com­ mittee Chairman. For further de­ tails see the ASCIT minutes.

SOS

Navy recruiters will invade the Greenes next Monday, April 11. Techmen motivated to defend their Alma Mater will receive indoctri­ nation on how to apply for Navy offers programs available next year. See the Navy page, Assembly and Assembly Com­ mittee Chairman. For further de­ tails see the ASCIT minutes.

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Letters

Sex Unlimited

Editors

I am a 18 years Viking miss from Norway.

I wonder if you would please help me get a penpal at your school?

I would like a boy between 20-24, interested in American folk music, and otherwise a little of everything.

Do you think you could find me such a boy?

If he would enclose a picture, that would be fine, but it’s not necessary.

I hope to hear from somebody,

Yours sincerely,

Anne-Lise Braastad

4 Oslo 4, Norway

Droll Brings 21% More Raisins

There once was a young girl who liked raisins very much — so much, in fact, that she became addicted to them. Because of their sweetness, and because the raisins made her teeth hurt, she soon began getting toothaches.

Her mother finally became alarmed and took her to a dentist. He found that she had more cavities than could be explained by her age. "In fact," the dentist said, "your cavities are the same as the frequency we might naturally expect of raisin-eating cavities.

Knowledge Industry Growing

By BART GORDON

Most of the students here might not realize it, but they are involved in the fastest growing industry in the country. According to an article in *Forums Magazines*, this industry is knowledge.

In 1954, 10 percent of the gross national product, or 136 billion dollars, was devoted to knowledge. In 1963, however, this figure had risen to 195 billion dollars.

Thirty-six percent of all people ever increasing one. With more college students than ever before, the need for educational help is greater than ever.

The problem of education is an ever increasing one. With more college students than ever before, the need for educational help is greater than ever. But with more students needing help, and more people seeking help, the demand for educational help is increasing.

This is why the knowledge industry is so important. It is a vital part of our economy and our way of life.

The current development program of the Mekong delta, which has been started since 1957, is an illustration of how the countries of the region can work together for their mutual benefit.

In-groupishness (one woman kept a little old lady off her language) is not a political solution but it is a symbol of a way to a better understanding.

The best presentation of the day.

AFROT C Gets Brass Flight

AFROT C senior Grant Blackinton was able to fly home for his ten-day vacation at no charge, courtesy of the US Air Force. He earned about $80 air fare by taking an Air Force flight with space available.

Blackinton’s return trip was in an AF-101A in the 15th Air Force Base in Colorado on the arranged date, he was shown aboard a well-appointed Lockheed Jetstar. Up roared a line of automobiles, and Grant Blackinton and his General Curtis Le May and aides marched on board!

Blackinton was not the first AFROT C man to take advantage of this service; junior Stewart Davie flew to New York over Christmas via the Air Force.

WANTED

Well-qualified translators for scientific and technical languages. Free lance work.

ALL SAINTS EPISCOPAL CHURCH

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SUNDAY SERVICES:

8:00, 9:10, 11:00, 7:00 p.m.

The Rev. Peter Johnson

Lyring Episcopal Chaplain

The Critical Ear

By BRUCE HUDSON

Peter, Paul and Mary: A Song Will Rise; Warner, Brothers, Monophonic.

P.P.M.’s A Song Will Rise opens with Dylan’s “When the Ship Comes In” (otherwise, songs are more in line than he is). The pounding, repetitive rhythm and very much a part of the song completely wipe out any social significance that might be there. Very good — don’t stir up the little old lady. The next, sweet, pleasant, “In My Willy Whim.” This is good background music for a reel-off before the beat pick up with an arranged, adapted spiritual “Come and Go With Me.” Pas mal.

Later we are informed of a lineup on both the Storrs in “Balling of Spring Hill.” Poor working condition, etc. Most of us are too callous to care. Mary then takes off with the “Motherless Children” and by the way, she hasn’t really obtain ed’s death.

Flip Side Swings

The second side is another matter. Very only the flip side. Lew Hays (Weavers) has a good item in "That's One Time." Poloemis against fear and hate are safe, and this roars along. Next “Monday Morning” we hear that marriage is bad, but that some girls still do it.

"The Cuckoo" is a genuinely beautiful song. Gobmers hole big, but some of them have very good traditional words written about them.

Now the three winners start, "San Francisco Bay Blues" swing out full of their best. The next number, "Talkin’ Candy Bar Blues," is really a funny song about a nice skin that skin crawls when a nice girl tries to make love. There has also been an increase in the sales of technical publications and daily newspapers. The mathematics taught to the college junior could be introduced at the high school level.

In other areas of the industry, the demand for paperback reprints of best-sellers or quality non-fiction has increased almost three times from 1954 to 1963.

This knowledge industry, the article concludes, is an ever increasing one, and it is all for the better. Someday, the industry might account for close to half of the GNP, a fitting index of the value of knowledge in the world today.

Institute on Vietnam

(Continued from page 1)

tremendously disputed was his recent inability to unite the pre-World War I German forces of Kaiser Wilhelm and our present-day United States.

Shah بان and Finkle were from one another. Dr. George Nirona, who spoke on "An Asian View of the Vietnam Crisis," then "let the sun rise" and interesting. After a break, there was "a blow that one can turn and Choose in Vietnam," featuring four gentlemen: a genuine Vietnamese medical student, a Chinese diplomatist at La Jolla, one of Rand Corporation personnel, and two other gentlemen, Shahban and Finkle, who were very interesting and two gave good presentations.

Just when a heated exchange looked likely, we were told to break up into small discussion groups, which were characterized as a "self-group" (one woman kept using a sweeping "we" as if all were one and the same). T here is a certain lack of reliability in coming to grips with the real problem. This problem is how can we best proceed to our goal of improving the living conditions of the people of Vietnam, given that we are in the maze we are in now?

If UNF P.L.

The most responsible answer came from one gentleman who suggested that we withdraw and turn the whole problem over to the United States and let them "play it with it." It was to be the best practical problem that the office goer, Dr. Gilbert F. White, addressed himself.

Dr. White’s story was that "this is the time to ask searching questions.

"He discussed four possible policies or actions which you might have or could be: "continuing what we have been doing," escalation, withdrawal, or neutralization, as was done with Laos.

He then laid stress upon the current development program of the Mekong delta, which has been started since 1957, as an illustration of how the countries of the region can work together for their mutual benefit. He then propounded the original idea of the US Air Force to assist in helping out many such projects, with cessation of hostil­ities being understood as a neces­sary adjunct to any such program.

Multilateral Effort

While stressed that this program is a political solution but it is a symbol of a way to a better understanding. It is no exaggeration to say that the kind of action it exemplifies might be a basis for negotiation. While also said that this needs to be a matter of interest to Laos, not necessarily the United Nations. This talk was by far the best presentation of the day.

Following the speech was a question period, which was not need not be highlighted except for Mr. Joel Rodelman’s reply to a question from one of us for Vietnam. He said, “I don’t have any solution of my own, but I do possess a lot of information and so I’d be glad to comment on or debate any theory that anyone else may propose.”

California Tech

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Unlimited

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Page 7-214
**Golfers Smash Pasadena College**

The first of the Caltech athletes to venture outside after the rain last weekend were the golfers. The team was away and in the presence known, like good third-term seniors, entering Pasadena College for the 12-13 Monday-Monday. 

Probably the leading candidate for the title is Robert Missouri. The golfer of each team is arranged in order of ability, exactly as in tennis, in order to match up the men from each team.

There are two types of competition — individual and pair — again analogous to the more familiar sport of tennis. In the pair or “best ball” competition only the best ball of the team is counted. The scoring is indelible in each type of competition. Whoever wins the most holes out of the first nine is given two points and the loser gets to try again on the next nine; the situation of a tie is reckoned with by giving each participant, or team, one point.

The winner of the second nine holes is awarded two points and the loser none. In addition, the winner of the most number of holes out of the total eighteen holes is given the usual number of points.

There are therefore six possible points in each individual or best-ball match. For example, if there are six players on a team, the maximum possible total points is 54, 36 in the individual matches and 18 in the best-ball matches. Beall was the medalist, an honor given to the player with the lowest score. Rounding out the team were Beam, Davidson, Col- glazier, Hirsch, and Cassada.

The team won despite the jolt of having V Inn deleted ineligible for academic reasons. His overall gas last term was only a 2.4.

**Trophy Standings**

<table>
<thead>
<tr>
<th>INTERHOUSE</th>
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<tr>
<td>Fleming</td>
<td>71 1/2</td>
</tr>
<tr>
<td>Ruddock</td>
<td>71 1/2</td>
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<tr>
<td>Blacker</td>
<td>58 3/4</td>
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<td>Ricketts</td>
<td>36</td>
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**DISCOBOLUS**

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<td>13</td>
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<td>Blacker</td>
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<td>Lloyd</td>
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**Karate Club Demonstration Tomorrow**

The Caltech Karate Club will present a demonstration of the basic techniques of karate tomorrow in the Gym. The show, starting at 3 p.m., will feature demonstrations of practical methods, fighting forms, and to please the crowd, board breaking.

The first of the Caltech athletes away was a hard-fought volleyball battle for the possession of the Discobolus trophy. It was a close game all the way, with Ricketts finally coming out on top.

The teams consisted of Terry Smith, Tom Carlson, Maynard Olsen, Pete Rumsey, Larry Dillehay, and Mike Blake for Ricketts; and Jerry Yudelson, Jim Pearson, Don Blair, Len Erikson, Jack Comly, and Paul Swatek for Blacker.

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California Tech Product
Of Sweat, Tears, Love

BY WALLY OLIVER

Faithfully every Thursday another grand and glorious issue of the California Tech is published. This is the story of the publishing of that issue.

The first job of the editor in charge of the next week’s paper is to develop a list of possible news and articles that need to be assigned to the Tech staff. These assignments are given in journalism class on Thursday afternoon, with the understanding that the stories are due either Monday or Tuesday of the following week.

Typical examples of assignments are the covering of the Monday night lecture in Beckman, writing a story on some personality who is coming to campus, or reporting on that person’s visit, or even finding out if the Institute wants to announce its new development program yet. At this time the feature editor might assign a story like “what new research is being done in the Chemistry Department.”

Stop the Press! The usual Monday night madness begins about 8 p.m. when the editor opens the Tech office. By this time the business manager has placed the national ads on the layout sheets. The size of the paper is determined by the amount of advertising in it. For instance, there is very little advertising this week; thus the paper is only four pages long. The whole mess of copy,layout sheets, and ad plates are then neatly bundled and sent to the printers, the Hickley Printing Company. At this time, 2 a.m., the tired and sleepy editor falls into bed dreading that 9 o’clock he must get up for the morning.

(Continued next week)

Fellowships
(Continued from page 1) then receives a fellowship from his university instead of winning a fellowship in national competition. Caltech has been awarded 17 fellowships for study in the next year.

Additional Fellowships
Other fellowships already awarded or soon to be awarded are Woodrow Wilson, AEC, Pullbright, National Defence Education Act, and Public Health Service fellowships. The AEC gives fellowships to all 786 trainees from the National Aeronautics and Space Administration. Fifteen students have been awarded NASA traineeships to Caltech.

Laying out the Tech
When all possible copy has come on Monday, either the managing editor (if there is one) or the editor-in-chief must fit the copy onto the layout sheets. The criteria for this is to put the most important news story as the lead with the lesser news stories filling the rest of the front page.

The second page is reserved for reserved for editorials, columns, and serious feature stories. The remaining pages, excluding the sports, are filled with random feature articles.

The final job of the night, which may at this time be 2 a.m. writing the headlines. They must fit the space available, as determined by the number of headlines and the size of the type style.

The whole mess of copy, layout sheets, and ad plates are then neatly bundled and sent to the printers, the Hickley Printing Company. At this time, 2 a.m., the tired and sleepy editor falls into bed dreading that 9 o’clock he must get up for the morning.

(Continued next week)

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Families stayed together ... and sometimes prayed together. In those days a couch was used for sleeping alone or with a good friend or with your wife, who wasn't always a good friend or wasn't always your wife."

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Written & Illustrated by PAUL FREEMAN

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