Dramatists Cast
*sent a reading of*

The delivery of Caltech's newest electron accelerating accelerator is planned for this week, as construction speed ahead on the facilities in the new Alfred P. Sloan Laboratory of Mathematics and Physics.

The 10,000,000 volt accelerator, costing $1,500,000, is being supplied by the Naval Research Laboratory.

With the continuously variable entrance to the accelerator, energy levels and nuclear reactions can be investigated in the heavier elements.

**Particle Accelerator Nearing Completion**

Energy Levels

To the present date, the heavy particles, whose accelerations in Kellogg have been used in charting the energy levels of the nuclei of the 15 lightest chemical elements (from hydrogen up to fluorine and neon).

With the new accelerator, the energy level and nuclear reaction studies can continue into the heavier elements; they will also be able to investigate the higher energy levels of the lighter elements.

**Research Techniques**

There are two methods of causing interactions between nuclei. One is the brute force method involving random collisions between nuclei at extremely high temperatures.

The other is to bombard a "stationary" target nucleus with high energy nuclei, as from a heavy particle accelerator. Though the energy of the nuclear "bullets" is not so high as in the thermal methods, use is made of the existence of the nuclear resonant energy level to achieve the same effect. At a resonant level, interactions take place much more readily than at either higher or lower levels.

This heavy shower of reaction products is the principal reason for the heavy concrete and earth shielding which surrounds the analyzing room on the target end (north side) of the atom smasher.

**Zap - Guess What?**

The three new undergraduate judges that commander to be elected at Caltech approaches the February 23 ballot to the effect that the undergraduate student body at Caltech opposes the loyalty oath required in the National Academy Commission act and urges the passage of the Kennedy-Clark bill.

**Japan Expert Olson Sets Visit**

Japan Expert Olson will attend 

**MY BATH COUCH**

Dr. Lawrence Olson, the third member of the Associated Students Board of Control's Field Staff to visit Tech this year, will arrive on campus Monday morning. Olson will be interviewed by student reporters. Tuesday evening he will speak to the Council on Foreign Relations at the Biltmore in Los Angeles.

Olson's interest in Japan developed during World War II when he served as a Japanese translator. Since joining the AUP in 1955, Olson has studied and written about developments in Japan from bases in Tokyo and Kyoto.


Olson will be on campus from Monday, February 8, until Wednesday, February 17. His tentative schedule through next Thursday is as follows:

- Monday afternoon he will be interviewed by student reporters.
- Tuesday evening he will speak to the Council on Foreign Relations.

Relations at the Biltmore in Los Angeles, topic, "Japan and Communist China." Monday morning Olson will attend II at 9 a.m. in 206 Dabney, speaking on "Japan: the Domestic Situation." He will lunch informally with the H 5 staff as they have breakfast. At 7:30 p.m. he will attend II 124 in 208 Dabney to discuss, "Can America Maintain a Democratic System?"

On Wednesday he will attend the "F " Lunchenforum at the "F " Building on the topic, "Japan and the U.S."]

On Thursday morning Olson will attend the BCC 190 classes at 8 and 11 a.m., in 101 Dabney, to speak on "Japanese Merchandise in the U.S." At noon he will speak on "Japanese Merchandise in the U.S." At noon he will speak on "Japanese Merchandise in the U.S."
Board Members Reveal Duties

ASCIT, Board of Directors continue their explanations of their duties.

Next week: John's Final.

• Secretary

The Secretary of ASCIT has three principal functions. Principal responsibilities are as im-

portant, he is responsible for keeping all records of study body affairs. This includes

keeping a complete filing system and keeping it up to date, as well as

publishing each issue in an acceptable manner within minutes whose distribution, now

in excess of 1000, can claim rivals that of the California Tech.

Second, he must publicize the agenda of the Board through

advice, occasional Tech articles, and other appropriate functions. Finally,

he is expected to be an active member of the Board. The position

can be time-consuming and

but, in retrospect, it's worth it.

—Bill Bowers

• Activities Mgr.

In two years of existence the thesis of the new Activities Chairman has been the Jazz

concert. But this is an arbitrary activity and could be supplemented or replaced by just about

anything.

The art concerns of the AC are chairmanship of the Honor Awards Committee, chairman or

member of various appointment committees, scheduling the use of Caltech and Dalmay Hall

by student groups, and arranging the dates of activities at the Social Chairman. The

AC is the major consideration be-

tween the Institute and student clubs and organizations.

The scope of this job is mainly determined by how much the officeholder wants to make of it.

—Hugh Kieffer

• Social Chairman

The ASCIT Social Chairman has essentially one job, the Lost Week End held in May. This

keeps him busy during the first third of the term. His So-

cial Chairman accomplishes the first term with Homecoming and a Christmas Dance, and in

the second term with a formal event held off campus unless

the social budget happens to be at a new low, in which case he holds a less pretentious affair.

Defence And Apology

Editor, The California Tech:

The recent editorial in the California Tech has made some very good points, and I feel any

remaining members of ExComm must carry the blame for the lack of certain improvements.

However, there was never any claim that the whole of ExComm is at fault. Our error

was one of mechanism, not one of explanation. Live up to our somewhat

and would like to offer an explanation.

ExComm took of-

face about the middle of third term last year, right in the mid-

of the 1960 election. After the

planned report. At this time, there were about 12 people, most of the HDF and ASCIT staff.

This year we were presented with a whole new set of problems and much work which those who had

graduated were planning to do. Even the most enthusiastic person can become discouraged with

our brand of administration, and we are responsible for the

decision. You have actually done more than anything; I would be happy to talk about

to any of the committees.

The last term had its share of external issues, but in

the future we promise to try and live up to our somewhat nebulous but still philosophically

defensible position.

However, we still need the faith and active support of the student body which we will wel-

come at our forthcoming meet-

ings.

ASCIT EXECUTIVE COMMITTEE

—cm

The California Tech

Published weekly during the academic year by the Associated Students of the California Institute of Technology, incorporated.

Editorial Board

Bill Casey, Editor John Ritter, News Editor Laura Mace, Features Editor Bob Koh, Features Editor Mary Carnes, Feature Editor Tom Ford, News Editor Al Davis

Editorial Staff

Bob Koh, Matt Couch, Lee Mahus, John G. Price

The Associated Students of the California Institute of Technology

Westlake Village, California

Periodicals Mail Notice - 11th Class.

Published weekly, $1.00 per year. Subscription Manager, The California Tech, 1201 East California Blvd., Pasadena, California.

Tuesday, February 4, 1960

Thursday, February 4, 1960

T H E  C A L I F O R N I A  T E C H

The California Tech

Published weekly during the academic year by the Associated Students of the California Institute of Technology, incorporated.

Editorial Board

Bill Casey, Editor

John Ritter, News Editor
Laura Mace, Features Editor
Bob Koh, Features Editor
Mary Carnes, Feature Editor
Tom Ford, News Editor
Al Davis

Editorial Staff

Bob Koh, Matt Couch, Lee Mahus, John G. Price

The Associated Students of the California Institute of Technology

Westlake Village, California

Periodicals Mail Notice - 11th Class.

Published weekly, $1.00 per year. Subscription Manager, The California Tech, 1201 East California Blvd., Pasadena, California.

Wednesday, February 3, 1960

Thursday, February 4, 1960

T H E  C A L I F O R N I A  T E C H

The California Tech

Published weekly during the academic year by the Associated Students of the California Institute of Technology, incorporated.

Editorial Board

Bill Casey, Editor

John Ritter, News Editor
Laura Mace, Features Editor
Bob Koh, Features Editor
Mary Carnes, Feature Editor
Tom Ford, News Editor
Al Davis

Editorial Staff

Bob Koh, Matt Couch, Lee Mahus, John G. Price

The Associated Students of the California Institute of Technology

Westlake Village, California

Periodicals Mail Notice - 11th Class.

Published weekly, $1.00 per year. Subscription Manager, The California Tech, 1201 East California Blvd., Pasadena, California.

Wednesday, February 3, 1960

Thursday, February 4, 1960

T H E  C A L I F O R N I A  T E C H

The California Tech

Published weekly during the academic year by the Associated Students of the California Institute of Technology, incorporated.

Editorial Board

Bill Casey, Editor

John Ritter, News Editor
Laura Mace, Features Editor
Bob Koh, Features Editor
Mary Carnes, Feature Editor
Tom Ford, News Editor
Al Davis

Editorial Staff

Bob Koh, Matt Couch, Lee Mahus, John G. Price

The Associated Students of the California Institute of Technology

Westlake Village, California

Periodicals Mail Notice - 11th Class.

Published weekly, $1.00 per year. Subscription Manager, The California Tech, 1201 East California Blvd., Pasadena, California.

Wednesday, February 3, 1960

Thursday, February 4, 1960

T H E  C A L I F O R N I A  T E C H

The California Tech

Published weekly during the academic year by the Associated Students of the California Institute of Technology, incorporated.

Editorial Board

Bill Casey, Editor

John Ritter, News Editor
Laura Mace, Features Editor
Bob Koh, Features Editor
Mary Carnes, Feature Editor
Tom Ford, News Editor
Al Davis

Editorial Staff

Bob Koh, Matt Couch, Lee Mahus, John G. Price

The Associated Students of the California Institute of Technology

Westlake Village, California

Periodicals Mail Notice - 11th Class.

Published weekly, $1.00 per year. Subscription Manager, The California Tech, 1201 East California Blvd., Pasadena, California.

Wednesday, February 3, 1960

Thursday, February 4, 1960

T H E  C A L I F O R N I A  T E C H

The California Tech

Published weekly during the academic year by the Associated Students of the California Institute of Technology, incorporated.

Editorial Board

Bill Casey, Editor

John Ritter, News Editor
Laura Mace, Features Editor
Bob Koh, Features Editor
Mary Carnes, Feature Editor
Tom Ford, News Editor
Al Davis

Editorial Staff

Bob Koh, Matt Couch, Lee Mahus, John G. Price

The Associated Students of the California Institute of Technology

Westlake Village, California

Periodicals Mail Notice - 11th Class.

Published weekly, $1.00 per year. Subscription Manager, The California Tech, 1201 East California Blvd., Pasadena, California.
BOC Chief Outlines Master Key Policy

BY TOM TERRIES
The master key policy of the Board of Control can be stated quite simply; the BOC considers a violation of the Honor System involving a master key on the same basis as any other violation. Possession of a master key does not constitute a violation of the Honor System.

Nevertheless, the easy access to the entire campus provided by a master key enables anyone possessing such a key to enter many places where he has no legitimate reason to be. Consequently, a discussion of the considerations involved in the use of master keys is probably in order.

The basic principle underlying the Honor System is mutual trust and respect. Recently this principle has been applied to develop the criterion of an "unfair advantage." Taking "unfair advantage" of other students, the faculty, or the Institute, is in violation of the Honor System.

Unfair advantage can also be applied to master keys. However, in this case it has some implications which are not immediately obvious. It is quite clear that using a master key to enter a locked room and steal something is a violation of the Honor System. Apparently it is less clear that private offices and laboratories and the equipment in them contain are not open to the general student body. In addition to "unfair advantage," one must consider personal rights and privacy. When a man is issued a key to an office or laboratory, he should rest assured that only he or those having his permission will enter the office or lab. Violation of this privacy is a clearcut violation of the Honor System.

The widespread possession of master keys by the undergraduate student body has aroused concern among the faculty and administration. This concern can be attributed to the fact that some graduates have not used master keys responsibly. They have entered unauthorized areas and, on a few occasions, have violated the privacy of personal offices. In addition, some of the many master keys in the hands of students have come into the possession of people not connected with the Institute. Since the remainder of the world does not live under an Honor System, it is obvious that this is potentially quite dangerous.

It is virtually impossible for Institute personnel or faculty members to obtain authorized master keys. Thus it should be quite clear that students have no "inalienable right" to them. Using a master key to enter an unauthorized area is a serious violation of the Honor System, and it will be dealt with as such. It should also be re-emphasized that Caltech campus master keys provide ready access to a great deal of valuable equipment and should be treated with corresponding respect.

New cigarette paper "air-softens" every puff!
Now even the paper adds to Salem's springtime freshness!

An important break-through in Salem's research laboratories brings you this special new HIGH POROSITY paper which breathes new freshness into the flavor. Each puff on a Salem draws just enough
• menthol fresh • rich tobacco taste • modern filter, too

Salem refreshes your taste
Hints and Kinks for Kits

By Pierre Sundborg

Caltech is an unusual market for the commercial electronics world. We buy a higher per centage of our equipment, particularly Hi-Fi gear, in kit form than probably any other group in the country. Construction of Hi-Fi apparatus from kits is fun, easy, saves a lot of money, and is a good excuse for doing math problems. There are a lot of tricks of the trade, most of which save time and temper. Here are a few.

First, the important matter of solder from. For most kit work a small iron, such as an Uniweld® iron, is desirable. A wattage rating of 20 to 40 is best.

There are times when you will want a lot of heat, such as when a filter capacitor has to be soldered to a chassis. In these cases, there is nothing as good as a soldering gun. Most of the guns work much faster than irons and seem to get heavier as you work.

And, of course, you have to wait for them to heat up. Use your own discretion in buying soldering equipment and get what feels best to you.

Solder is something you don't buy very often. A little bit goes a long way. So why not be smart and get the best? The new 5-core resistors are ideal for kit work. Be sure that you buy resistors and use only 50 and 60 cent tin solder. If you want to make it easy to hold a greatly ambidextrous and without inconvenience, try this kind: wind the solder in a coil around a sharpened pencil, starting at the thin end and winding back along the barrel of the pencil. Then, remove the coil from the pencil and push the free end of the coil down the center of the coil, so that it comes out through the small end of the coil. From then on, just pull out a little solder as you need it. Simple and convenient.

Most of the hook-up wire supplied with kits is solid wire with thin plastic insulation. Don't strip the insulation from the end of this type of wire by using "diagonal" wire cutters. You'll almost certainly cut slightly into the insulation and maybe lay the groundwork for a later break. Instead, squeeze the wire with a pair of long nose pliers until the insulation splits away from the wire. Then clip off the ends of the wire with cutters.

It isn't necessary or even desirable to wrap wire several times around a terminal before soldering. A good soldered joint is a mechanically strong joint. Just put the wire through the terminal, bend it a little if necessary to make it stay there, and clip off the excess. When soldering, heat the joint until it is hot enough to melt the solder.

When mounting parts, do just as the instructions say. If you're sure that you know a better way. In building FM tuners, in particular, it is essential that you place components just exactly where the book says to. Keep lead lengths as short as possible, but not so short as to make overheating of components a problem.

Most transformers in kits have their leads "precut to the necessary length." Well, it just isn't so. Usually the leads are at least an inch too long. Extra length, particularly in audio work, means hum and trouble. If transformer leads are too long, go ahead and cut them to the proper length.

In Dynaknit amplifiers most leads are way too long, and think before cutting. The Dyna Company will not guarantee any transformers on which the leads have been cut. I've never seen a bad Dynaknit transformer, so I cut up a set and quite often the bolts holding power transformers together have not been tightened enough at the factory. A little tightening of nuts on pots will make them very hard to turn.

Easy does it.

When you wire a rotary switch, be sure that you have it oriented properly before making connections. It's easy to get confused by 24 contacts on one wafer. Take your time and have someone else check your work.

Don't apply heat to a terminal any longer than necessary. Overheating can cause resistors to change value quite radically, and it will damage small capacitors. Never solder to a tube socket which has a tube plugged into it.

Quite often the bolts holding transformers together have not been tightened enough at the factory. A little tightening of nuts on pots will make them very hard to turn.

When you're through building the kit, check your work carefully. Scrape away excess rosin, then rub a solid soldering braid and wire scraps out of the chassis. Then have someone else look the unit over. Quite often be will find a trouble spot that you have at a dozen times without noticing.

If you have a meter handy, measure the resistance from the high voltage side to ground to be sure there are no shorts. Then put in the tubes and plug it in. Watch for the filament to light. If they don't, hold everything and find the trouble before proceeding.

If you built an amplifier, set the bias on the output tubes. If it was a tuner, an alignment job is a good idea. Most tuners "age" and need realignment after a week of operation. It's a good idea to check the bias in amplifiers periodically. It shouldn't be positive.

Soup of the week department: Elkins are nice output tubes and are used in Dynakits and other fine machines. Allied Radio sells them for $4.65 each. I can get you a matched pair, guaranteed new, for $3.90, or single tubos for $1.50. Two-week delivery, I think. Let me know if you can use some. 49 Ricketts.

...the Exploration of Space

Since its inception nearly 23 years ago, the Jet Propulsion Laboratory has given to the free world its first tactical guided missile system, its first earth satellite, and its first space probe.

In the future, under the direction of the National Aeronautics and Space Administration, pioneering on the space front-

"We do these things because of the unquenchable curiosity of Man. The scientist is called upon to keep that curiosity alive and give the public a sense of the thrill and excitement of discovery.

Who can tell us what we will find when we get to the planets?

JPL Representatives here for interviews...

1917, 18

Interestingly in talking with...

Physicists • Chemists • Mathematicians • Electronic, Aeronautical, Mechanical, and Structural Engineers

104 openings now available

Brotherton's Farm House

Full Course Dinners

All the Hot Biscuits You Wish

$1.00 - $1.55

Chicken, Ham, Steak

Fish, Biscuit

2239 E. Colorado

Open 11:30-8:30

SV. 6-5058 FREE PARKING

Thursday, February 4, 1960

Page Four
Bright Lights... COFFEE... ... AND SHOES
by griffin

Rubino lay in the road, his head propped up on his chin, resting and contemplating deeply, as Sicilians are prone to do, and he thought of the lovely Melinda Lee (for that was her name) in the arms of that fiend, Alan Tobias. Being a masochist, he imagined how he would fight Tobias to the death, and as he, Rubino, fell in a pool of blood, Melinda would rush to his side and kiss him as he gurgled his last. But no! he would not die; he had to live and love and laugh and be happy.

Every day dawned bright and clear over Fair Oaks, but this one was brighter and clearer and Arthur woke with a wonderful smile as he thought of what this morning was to bring. Far away, Alan Tobias also woke with a smile, but rather than the future, Tobias was thinking of the past night . . .

The bar/sley

BY JOHN BERRY

These first two drinks your writer recommends with qualified enthusiasm. In part this is no doubt due to his lack of rapport with rum-based drinks, as several friends became quite enthused, if that's the word for it, about them.

The Fair and Warmer
2 parts light rum
1 part Sweet Vermouth
2 dashes Curaçao

Stir with ice and strain into glass. Two variations which I consider worth while are substituting Colombee for Curaçao or Dry Vermouth for Sweet.

The Gradual Special
2 parts light rum
1 part Apricot Brandy
1 part Dry Gin

Stir with ice and strain into glass. It is possibly a little too sweet. I like a small dash of Angostura Bitters added.

You may know about Absinthe and Pernod supposedly being aphrodisiacs. I cannot vouch for it as I have never used the bottle as a whetting your appetite for food. The drinks of today's column are excellent aperitifs:

**Button Hook**
1 part Pernod
1 part Apricot Brandy
1 part Dry Gin

Shake well with ice and strain into glass.

Do not use green Creme de Menthe under any conditions. If you do, the drink will turn blue or green and it's a judgment brought on by not being able to do this crypticism out, ask a biologist.

**Duchess**
1 part Pernod
1 part Dry Vermouth
1 part Sweet Vermouth

Shake well with ice and strain into glass.

A campus-to-career history

Max P. Beere spent two years at the University of Hawaii while with the U.S. Navy, then earned his B.S. degree in Engineering at the University of Utah, where he served as technical lighting director for numerous campus theater and television shows.

On graduating in 1955, he fancied a television career for himself, but felt that, being married, he couldn't afford to serve a TV apprenticeship.

Max had an interview with the Pacific Telephone and Telegraph Company in San Francisco. He offered a position in transmission engineering, he says. "It sounded great—but I really thought of it as temporary thing until I could get into television."

Max's TV career began sooner than he had hoped. Assigned as telephone company liaison with the TV networks, he was soon surveying microwave relay routes for the "Wide, Wide World" show, and working on "remote" and mobile telecasts from such interesting locations as Death Valley and rocket-launching sites deep in the desert.

In August, 1958, he was transferred to San Diego, where he took on full responsibility for TV-and-radio Special Services. This led to a particularly satisfying assignment in early 1959—the development of a new and successful closed-circuit educational TV system for 18 elementary schools in Anaheim.

"The telephone company really opened my eyes," says Max. "It's a fine place to work, where new ideas are welcomed and recognized and chances for advancement are excellent. I'm sold on it."

Max Beere is one of many young men with varied college backgrounds who are finding stimulating careers in the Bell Telephone Companies. Learn about opportunities for you. Talk with the Bell Interviewer when he visits your campus—and read the Bell Telephone booklet on file in your Placement Office.

The Bar/sley

BY JOHN BERRY

These first two drinks your writer recommends with qualified enthusiasm. In part this is no doubt due to his lack of rapport with rum-based drinks, as several friends became quite enthused, if that's the word for it, about them.

The Fair and Warmer
2 parts light rum
1 part Sweet Vermouth
2 dashes Curaçao

Stir with ice and strain into glass. Two variations which I consider worth while are substituting Colombee for Curaçao or Dry Vermouth for Sweet.

The Gradual Special
2 parts light rum
1 part Apricot Brandy
1 part Dry Gin

Stir with ice and strain into glass. It is possibly a little too sweet. I like a small dash of Angostura Bitters added.
Dear Editor of the California Tech:
The master key policy of this campus is very bad. The fault lies partly with the Board of Control and partly with the Administration. I will first deal with the Administration policy and then with the Board policy. Because of the key policy of the Administration, the students need master keys to enter the classrooms and libraries in the evenings. It is fair to say that the students have as much right and reason for access to the libraries — including the chemistry library — as anybody else. It is also fair to say that they should be able to use the classrooms in the evening. The noise and other disturbances in the Student Houses gives them good reason to want to study in the classrooms.

Therefore, the Institute should issue keys to each student for most building entrances and for all libraries. If there is any reason to lock the class rooms at night, the Institute should issue keys for the classrooms: if there is no reason, the lock should be removed from the classroom doors.

After such action on the part of the Administration, unauthorized possession of the master keys by students should be against the honor system.

The use of the erroneous belief that they own the campus, students use their keys to get into places where they have no right to be. Added to this, they have the bright idea that they are privileged and competent to use and repair anything. Their privilege is usually nonexistent; their lack of competence is shown by the locks in the Student Houses and much of the interhouse damage.

To be more specific about the misuse of master keys, I will consider the labs, the student shop, and the porters’ rooms. I know that there have been enthrallments into and breakages in locked labs by students who had absolutely no right to be there. Some of the instances were made worse by attempts to repair the damages.

Non-members of the student shop have entered and used the tools of the shop. The use of the tools is for members checked out on them only. I have seen students with master keys that did not know what to do with them. As they entered the covered walkway next to Fleming, they were so hot to use them that they opened the porters’ room on the northwest corner of the House. With insane desire to use their magical keys, students wander in places where they have no right to be.

As another objection to master key is that many professors resent students having a key to their offices. They consider their offices — where they may keep important and personal things — private. They expect their offices to have the protection of private rooms. In civil law, buying of keys to a house not your own is regarded as conspiring to enter.

Why should students be allowed to have a key that fits private offices, labs, and other rooms that they have no right — and often no reason — to be in?

PETE MAYER

Wednesday, Feb. 10

THE GARRETT CORPORATION
AiResearch Divisions
will be on campus to interview
ENGINEERING STUDENTS

B.S. - M.S. - Ph.D. candidates

The Garrett Corporation is one of the most diverse research, engineering and manufacturing organizations in the aircraft, missile and technological fields.

From research laboratories have come pioneer developments in aircraft and missile components and systems. Today 90% of the world's aircraft use AiResearch equipment.

Other Garrett divisions and subsidiaries are creating a variety of products, including industrial turbocarbureters and survival equipment, as well as supplying sales and service to airframe companies, airlines and the military.

Project work is conducted by small groups in which individual effort is more quickly recognized and opportunities for learning and advancement are enhanced.

With company financial assistance, you can continue your education at fine neighboring universities.

- TYPICAL PROJECT ACTIVITIES -

- Control systems for various types of missiles.
- Air and vapor cycle refrigeration equipment, pneumatically and mechanically driven compressors.
- Gas turbine engine and other high speed rotating machinery design and analysis involving gas dynamics, thermodynamics and aerodynamics.
- Air and spacecraft environmental control systems involving air and cryogenic valves and controls and heat transfer equipment.

- ORIENTATION PROGRAM -

In addition to direct assignments, an eight-month orientation program is available to aid you in job selection. You participate in Garrett project and laboratory activities and work with engineers who are outstanding in their fields. Your orientation may include familiarization with sales, contract administration and production.

- JOB OPPORTUNITIES -

Thermodynamics
Aerodynamics
Missile Hot Gas and
Hydraulic Systems
Combustion Analysis
Chemical Engineering
Mechanical Engineering
Instrumentation Design
Gas Turbine Engines
Stress and Vibration Analysis
Preliminary Design
Research
Gear Design

Laboratory Engineering
Cryogenics
Pneumatics
Mathematics
Electrical Engineering
Transistors
Instrument Design
Electronics
Analog Computer Design
Data Analysis
Control Engineering
Computer Programming
Space Physics and Ionization
Sales Engineering

Thermodynamics
Aerodynamics
Missile Hot Gas and
Hydraulic Systems
Combustion Analysis
Chemical Engineering
Mechanical Engineering
Instrumentation Design
Gas Turbine Engines
Stress and Vibration Analysis
Preliminary Design
Research
Gear Design

Laboratory Engineering
Cryogenics
Pneumatics
Mathematics
Electrical Engineering
Transistors
Instrument Design
Electronics
Analog Computer Design
Data Analysis
Control Engineering
Computer Programming
Space Physics and Ionization
Sales Engineering

Thermodynamics
Aerodynamics
Missile Hot Gas and
Hydraulic Systems
Combustion Analysis
Chemical Engineering
Mechanical Engineering
Instrumentation Design
Gas Turbine Engines
Stress and Vibration Analysis
Preliminary Design
Research
Gear Design

Laboratory Engineering
Cryogenics
Pneumatics
Mathematics
Electrical Engineering
Transistors
Instrument Design
Electronics
Analog Computer Design
Data Analysis
Control Engineering
Computer Programming
Space Physics and Ionization
Sales Engineering

Thermodynamics
Aerodynamics
Missile Hot Gas and
Hydraulic Systems
Combustion Analysis
Chemical Engineering
Mechanical Engineering
Instrumentation Design
Gas Turbine Engines
Stress and Vibration Analysis
Preliminary Design
Research
Gear Design

Laboratory Engineering
Cryogenics
Pneumatics
Mathematics
Electrical Engineering
Transistors
Instrument Design
Electronics
Analog Computer Design
Data Analysis
Control Engineering
Computer Programming
Space Physics and Ionization
Sales Engineering

M.S. GRIPPE CALOIDS

Available Feb. 1960

SISTER BESSIE GRIFFIN

The GOSPEL PEARLS

Edwin Perl1, Lake 882 E.
San Diego, Calif.

New Improved — Trial Size 10c
Reg. Size 51.40
Postage Size 56.25

AIRESEARCH INDUSTRIAL, INC.

AIRESEARCH INDUSTRIAL

AERO ENGINEERING

AIR CRUISERS

AIRESEARCH AVIATION SERVICE

THERMO DYNAMICS

AERODYNAMICS

MISSILE HOT GAS AND HYDRAULIC SYSTEMS

COMBUSTION ANALYSIS

CHEMICAL ENGINEERING

MECHANICAL ENGINEERING

INSTRUMENTATION DESIGN

GAS TURBINE ENGINES

STRESS AND VIBRATION ANALYSIS

PRELIMINARY DESIGN

RESEARCH

GEAR DESIGN

LABORATORY ENGINEERING

CRYOGENICS

PNEUMATICS

MATHEMATICS

ELECTRICAL ENGINEERING

TRANSISTORS

INSTRUMENT DESIGN

ELECTRONICS

ANALOG COMPUTER DESIGN

DATA ANALYSIS

CONTROL ENGINEERING

COMPUTER PROGRAMMING

SPACE PHYSICS AND IONIZATION

SALES ENGINEERING

THURSDAY, FEBRUARY 4, 1960

Page Six
THE CALIFORNIA TECH

DIFFERENT AND EFFECTIVE — ASK FOR CALODES

533 South Lake 102 S. California Blvd.

THE CALROTT CORPORATION

881 S. SEPULVEDA BLVD., LOS ANGELES 48, CALIFORNIA

DIVISIONS: AIRESEARCH MANUFACTURING, LOS ANGELES • AIRESEARCH MANUFACTURING, PHOENIX • AIR SUPPLY AIRESEARCH INDUSTRIAL • AERO ENGINEERING • AIR CRUISERS • AIRESEARCH AVIATION SERVICE
A 66-50 upset win over UC at Riverside on Tuesday afternoon evened the Caltech exhibition basketball record at 3-3 for the season. The losers whipped the Beavers 56-48 in their only other meeting in the second game of the year.

Saturday the Techmen will host Pomona in an attempt to reverse an earlier 66-65 setback. The Sagehens held the home court advantage last time but now the Beavers, after their second conference win, stand a good chance of knocking off the visitors.

Cal Western journeys to the Beaver hardcourt next Tuesday in another non-league encounter. The Westerners, after a rocky start, have come on fast, holding a one-point triumph over tough Cal Poly at San Luis Obispo, members of the CCAA. Basketball-tomatoe, who hit for 22 points. Jack Sailors, who led throughout the game, swished the cords to push the Bulldogs into the finals, continually letting the Bulldogs pull down rebound after rebound.

The 1955 Beaver basketball squad, on its way to a Big Victory at the half with the score 22-22, the victors defeated Whittier. The 1955 Beaver basketball squad, on its way to a Big Victory at the half with the score 22-22, the victors defeated Whittier. The Caltech freshman 4-4 mark in league action.

The starting five for the frosh are Bopp, Perlman, Peta Fischer, Tom Anderson and Dave Barker with Marty Hoffman and Bruce Chesbro as top replacements. Bopp, a former All-League choice in the Desert League at Bishop High, is leading the starting five with a 15-point average while Fischer is holding down a 13.3 average.

The charges of Coach Ed Preller take on Pomona Saturday in their next league test at home.

The above openings are available at MITRE's modern facilities in suburban Boston, Massachusetts—Fort Walton Beach, Florida—and Montgomery, Alabama.
Interview Sted


New Lit Course Set

A new course in 18th Century English Literature will be offered to seniors next term. Dr. Robert J. Allen, visiting professor from Williams College, Williamstown, Mass., will instruct the new class.

Interview

Olson Visit

(Continued from page 1)

attend the "Y" Grad seed lunch club. At 2:45 p.m. he will attend a Westover School Spring events class, "The New Life in Japan." He will have dinner at the home of Dr. and Mrs. R. J. Allen.

Bright Lights

(Continued from page 5)

from which Tobias was known to drink especially large amounts when going to sleep.

Before leaving, Arturo added one last touch: he adjusted the lock on the inner door so that it could not be opened from either side...Rubino's revenge would make the world...the Bellfast gathered speed up Oak Knoll, and the sun set gracefully over San Marino.

Next work: Tobias refuses to take the Loyalty Oath.

Frosh Fill Two Offices Tuesday

Arthur Robinson was elected freshman class secretary, and Larry Rubinowitz to one Board of Control seat in a run-off election held Tuesday. They will take office immediately.

Two frosh class offices still remain open; one in a run-off to be held next Tuesday by Henry Abarbi and Ron Kirsich for president, and Kenneth Manley and Lee Samuelsen for one of the Board of Control membership.

The officers named in the previous frosh elections and the one Tuesday will serve until the end of this year.

WATCH REPAIRING

expert—last—reasonable—
all makes and models

Welcome to

THE CAMPUS BARBER SHOP
Near the Coffee Shop
ALL HAIRCUTS
$1.50

Two Barbers to Serve You

ENGINEERS AND SCIENTISTS

REPRESENTATIVES OF

NORTH AMERICAN AVIATION, INC.

WILL CONDUCT ON-CAMPUS INTERVIEWS Feb. 11 & 12

Visit your placement office now for all the facts about a future with North American Aviation, Inc.

At Work in the Fields of the Future

NORTH AMERICAN AVIATION, INC.