

# Foothill Sentinel

Volume 27, Number 28

Los Altos Hills, CA 94022

May 31, 1985

See Campus  
election news  
page 8

Vote June 4 & 5

## City cops may locate on Campus

By ERIK BRATT

Trustees of the Foothill-De Anza Community College District are considering a plan to have Foothill College and Los Altos Hills share one police department in an effort to cut costs and provide greater security coverage.

According to Foothill President Thomas Clements, the plan would expand services, help defray expenses of the security department and provide better police coverage.

This idea would be to have a police headquarters stationed in the current Foothill Campus Security Department, C-31. To patrol the Campus and the city, Foothill would have to add two additional sergeants, four officers, and two dispatch cars to their current security staff.

Los Altos Hills' contract with the Santa Clara County Sheriff's Department for police services expires on June 30. Though still early, Clements says the feeling

from the town council on the proposal was generally positive.

The concept of sharing a police department arose when college and city officials recently discussed the possibility of joining resources in the event of an emergency.

On May 6, at a regular meeting of the Board of Trustees, Chief of Campus Security Tom Conom, Los Altos Hills Mayor Andrew Allison and City Manager George Scarborough brought forth a request to explore the idea further.

Mayor Allison said that he hoped the Board would keep in mind the "commonalities" in the needs of both Foothill and the city and authorize further exploration of the issue.

"There has to be a sufficient payoff for this college," Clements said of the plan. "I do support it enough to continue looking into it."

"There are two issues involved in the plan," says Conom. "One, would it benefit the college, and

two, would the college be turned into a provider of police services?" He emphasized that there would be no jail on Campus.

Conom, who says the plan is still in the very early stages, pointed out that both the college and the city have low crime rates, so it would be possible to provide one police force for the whole area.

"There would be no visible difference in security services," continued Conom, who was asked by Clements to look into the details of setting up the type of agency needed for a police department.

"I can see some benefits and some difficulties," said ASFC President Bruce Jett. "It would help augment the security budget and provide better protection, but I need to see the entire proposal to make any decision."

Dolly Sandoval, student trustee of the Foothill-De Anza College District, thinks that having a police force on Campus is not in the best



Foothill Security Chief Tom Conom

interest of the students. "There's not that much bad activity on Campus to warrant more protection."

To set up a joint police department, the college and the city would have to enter into a "joint powers agreement," a legal vehicle wherein a third party would be formed to act as a governing board to oversee the department. Members would be dually appointed by

Foothill and Los Altos Hills.

When would all this happen? "We are going to look into the details and then present a report to the Board of Trustees," explained Conom. "It could possibly happen within a year. They [the Trustees] haven't set a date to vote on the matter yet."

"If it's going to happen, it will happen within 1985," stated Clements.

## Summer Arts Festival debuts

The Master Sinfonia Chamber Orchestra, directed by David Ramadanoff, will give an all-wind concert on Friday, June 7, in the Foothill College Theatre at 8 p.m.

The concert will open the all-summer Performing Arts Festival on the Los Altos Hills campus.

Two major works will be performed by the Foothill-based orchestra — Beethoven's Octet for Wind Instruments and Mozart's Serenade in B Flat, commonly known as Serenade for Thirteen Winds and the largest scale work for a wind serenade.

In the Serenade, two bassett horns will be played by Daniel Leeson, a Bay Area Mozart scholar, and Tony Striplin.

Director Ramadanoff is in his sixth season as the Sinfonia's conductor. A Sergei Koussevitsky Fellow, he has won the George Solti

Competition, the Leopold Stokowski Conducting Award, and the Hungarian Radio and Television International Conducting Competitions. He was assistant conductor of the San Francisco Symphony under Seiji Ozawa and was associate conductor under Edo De Waart until 1981. He is currently music director of the Vallejo Symphony.

Tickets are available for \$6 general admission and \$3 for students and senior citizens through the Foothill Box Office.

Tickets for this and other performances in the Performing Arts Alliance-Summer Festival are available at the Foothill Theatre Box Office, open 11 a.m. to 1:30 p.m. Mondays through Thursdays (415/948-4444). A brochure listing all events and ticket order form also is available at the Box Office.

## Overeaters support one another

By DEBORAH SMITH

When you have exams to face, papers to write and the pressure builds, do you ease your mind with a couple of bowls of rocky road ice cream? When your lover dumps you, do you seek solace in a box of chocolates and a plate of fudge brownies? Do you then feel so guilty that you eat everything else in the refrigerator?

Stress, anxiety, self-pity and guilt are some of the major causes of overeating, according to Thelma H., a guest speaker at a Foothill Overeaters Anonymous (OA) meeting, May 14.

"OA gives you an opportunity to get in touch with your feelings and your relationship to food," Thelma said, "to find out why you are overeating."

"The first step to recovery is to recognize the problem," said Thelma, "and to realize that you are not in control."

Thelma realized she had a problem with food three years ago when

she tried on a pair of jeans and then couldn't get them off. She said she never used to have a weight problem and normally weighed 114 lbs. But after her husband died, she began to overeat her way up to 185 lbs.

"I tried diet after diet," she said, "but I always gained back the weight I lost — with interest."

A persistent friend finally insisted that Thelma go to an OA meeting. "At first I didn't want to go," said Thelma, "but at OA I found a place where I belong. When I heard the others speak, when I heard them describe the same feelings I had, the same suffering I was experiencing, I realized I wasn't alone anymore."

Within three months, Thelma said she found herself munching on carrot sticks instead of cupcakes. She is now back down from a size 18 to a size 8.

"I began to realize that this is the only body I've got," she said, "and that I've got to take care of

it, not treat it like a garbage disposal."

Thelma said that she hasn't given up the foods she loved but has learned to deal with problems in other ways than overeating through OA. "I've learned to see myself honestly and take responsibility for my life."

OA meetings begin and end with a prayer, but the organization is not affiliated with any religion. "We call upon a higher power for help," explained one OA member, "but each member can decide what that higher power is. To some it's God, to others it's OA and to others it's something else."

OA does not offer a weight loss or exercise program. It does not advocate any particular diet and, in fact, considers most diets as temporary solutions "There are too many diets floating around," said Thelma, "but it's the feelings which cause us to overeat that concern

(Continued on page 8)



# Moldy oldies

By MICHAEL BELEF

The top issues on Campus in March 1967 included a hotly debated proposal to revise the dress code, an attempt by a student council president to impeach a SENTINEL editor, and this headline: "Student apathy alarms fire-fighters."

Apparently numbed by fire drills and a false alarm one week, students ignored an alarm the next week. However, that alarm was triggered by a fire in the ceramics building. The SENTINEL reporter failed to note if any damage or injuries occurred, but managed to get this quote from then Campus Police Chief Joseph Silva: "The reasons students don't obey the fire alarms is that they are apathetic." There's that word again!

In May 1967 ASFC President Randy Locke was so angered by an article penned by SENTINEL Editor Jon Buckley that he called a vote in the student council demanding Buckley's resignation. Although the council agreed, the ouster never occurred.

However, funding was cut off for the publication "Fairly Free Thinker" where Buckley's article appeared. The council reported that the funds earmarked for the publication had been spent on an outstanding printer's bill of \$619 for the "Code of Personal Conduct at Foothill." Editor Buckley commented: "I think there's some kind of hanky-panky going on in the administrative end of things." Locke later fought to have additional funds provided for the publication.

The furious debate over what a Foothill student was allowed to wear to school began with a student petition which would relax the code and allow "bermuda shorts for boys and slacks for girls, anytime, any place."

In support of the existing dress code, Foothill President Dr. Calvin Flint said that discarding the dress code would create a "sporting

attitude" rather than a "business attitude." Part of the administration's rationale for the dress code was that an attempt to maintain a "good image" was reflected in the dress code.

A SENTINEL editorial speculated that the administration was afraid of losing a substantial amount of financial support from the community if the dress code were not enforced. The debate raged on for at least five months.

The dress code must have been modified before April 27, 1971. SENTINEL photos show Foothill student squatters in the Cusack House definitely weren't wearing slacks or blouses; more like tie-dye t-shirts, sandals, headbands, raggedy jeans and beads.

Nearly 50 students "occupied" the building used by the district for storage and demanded that the "Cusack House" be turned over to the student body for use as a student center, coffee house and lounge.

The old home was donated to Foothill. Foothill officials told students the house was uninhabitable because of "structural weaknesses" and a lack of plumbing, heat and an "inadequate and hazardous electrical system." Conditions today are the same. Undaunted, the students occupied the house from noon until 10 p.m. one Tuesday. Eleven students were arrested for trespass as Santa Clara County Sheriffs carried the students away.

A group of more than 50 students occupied the porch from 8 a.m. until 5:40 p.m. Wednesday before they were persuaded to leave by District Superintendent Calvin Flint.

The following week more than 100 students packed the student council meeting when three motions to reform student government were passed by the council.

Some students at the meeting jeered at the student representatives and called the ASFC a "puppet government."

(Continued on page 7)



HUNDY. AMERGO-- REAGAN DOESN'T WANT ME BUTTING INTO AMERICANS' LIVES ANYMORE. SO HE SENT ME DOWN HERE...."

## Letters

### Coverage called one-sided

Editor:

It is our personal belief that the publishing of biased political views—such as the caricature of Reagan on Page 3, lower right-hand corner of the May 14, 1985 issue of the SENTINEL—displays gross disrespect for the leaders of your country.

I'm sure you are fully aware of

the wide variety of ethnic backgrounds represented at Foothill, some of whom are very new to this country. By presenting only a single-minded view of our government's policies, you are instilling prejudiced ideologies to individuals who may take your publication at literal value.

The purpose of college is to educate and to allow a growing mind the opportunity to see both sides of an issue and then make an intelligent, learned choice. The responsibility of the press is to present those issues so that the choice can be made. Therefore, in the future, present a balanced political outlook and allow the student the freedom of choice.

—J. Ashton & M. Sonneman  
Foothill Students

### UFO header corrected

Editor:

I wish to disavow the headline, "Are UFOs secret of unlimited power?", under which my commentary on this subject in the May 24, 1985 SENTINEL issue appeared.

The purpose of this article was to discuss the UFO percipient experience, considered within the context of Jungian, rather than Freudian, psychology.

My article did not discuss or consider the alleged technical attributes of UFOs, or even declare them to be material objects.

Possibly UFOs are actual vehicles of either human or extraterrestrial manufacture.

But if they are real objects, I do not know anything about them personally, or claim to.

—Michael Field  
SENTINEL Staff

#### Correction:

It was mistakenly reported in the article "Displaced Homemaker Program Changes Lives" in the May 24 issue of the SENTINEL that their grant had been renewed. It hasn't.

Mona Williams, coordinator, is hoping that the program will be continued in the 1985-86 school year.

## POLICE BLOTTER

By ERIK BRATT

### MONDAY, May 20, 1985

9:23 a.m. Non-injury traffic accident in Lot D reported by S. Kaczmarek. Officer Hawke took report.  
12:35 p.m. Vending machine burglary in Campus Center reported by De-Paul Vending. Officer Hawke took report.  
FOUND: a shirt, some keys.

MISCELLANEOUS: two motorists assisted with auto lockouts.

### TUESDAY, May 21

8:30 a.m. Suspicious persons reported in G-wing. Desk advised officers.  
10:16 a.m. Petty theft: parking permit stolen from Lot B. Officer Hawke took report.

MISCELLANEOUS: two motorists assisted with car lockouts.

### WEDNESDAY, May 22

8:28 a.m. Vehicle out of gas at El Monte connector and bus stop reported by S. Kaczmarek. Officer Hawke responded.

8:30 a.m. Reckless driver reported in Lot D. Vehicle gone upon arrival of Officer Hawke.

10:05 a.m. Petty theft: Joyce Lindstrom reported her parking permit stolen. Officer Hawke took report.

5:53 p.m. Stalled vehicle near El Monte connector reported by L. Houseman. Officer Cross responded.

8:12 p.m. Skateboarders in Lot C reported by Officer Cross. Verbal warning issued.

FOUND: two notebooks.  
MISCELLANEOUS: five motorists assisted with auto lockouts.

### THURSDAY, May 23

7:53 a.m. Animal complaint: three dogs reported on campus. Officer Turino responded. Animals taken to AHT.  
3:00 p.m. Rosario Sullivan requested a lock cut in A-22. Officer Hawke responded.

FOUND: a key.  
MISCELLANEOUS: one motorist assist with vehicle lockout.

### FRIDAY, May 24

10:42 a.m. Animal complaint: barking dogs in Library reported by Mr. Brugera. Officer Turino responded.

12:28 p.m. Suspicious vehicle reported in Lot C. Vehicle gone upon arrival of Officer Turino.

2:47 p.m. Animal complaint: wild opossum reported near M-28. Officer Turino unable to locate.

FOUND: a sweatshirt.  
MISCELLANEOUS: two motorists assisted with auto lockouts.

### SATURDAY, May 25

4:28 p.m. Property damage: fallen tree branch near Perimeter Road and Lot 7. Officer Cross responded.

5:39 p.m. Go carts in Lot C reported by Officer Cross. Verbal warning issued.

### SUNDAY, May 26

8:45 a.m. Damaged speed limit sign at Perimeter Road and Lot B reported by Officer Turino. Report taken.

## FOOTHILL SENTINEL



The SENTINEL welcomes letters. All letters must be typewritten (double-spaced), be restricted to 300 words or less, and be signed. Your phone number would be appreciated so that our editors can verify points of information.

The SENTINEL is a student newspaper published weekly on Fridays during the academic school year by Foothill College, 12345 El Monte Road, Los Altos Hills, CA 94022.

Opinions expressed are not necessarily those of the college or student body. Staff members are students enrolled in the journalism program at Foothill. The SENTINEL staff is located in M-24; telephone 415/960-4372 or 960-4261. Advertising rates are available upon request.

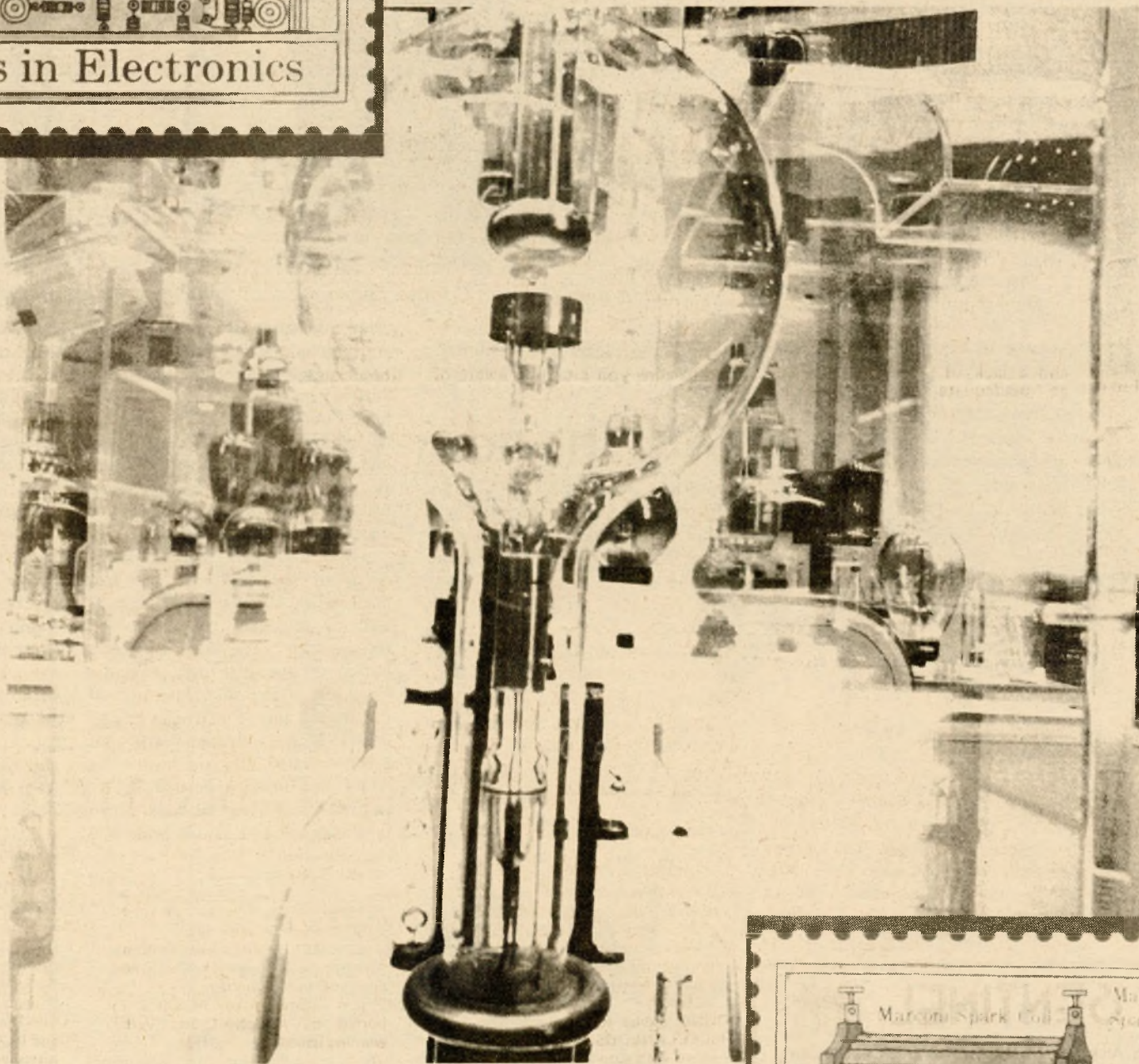
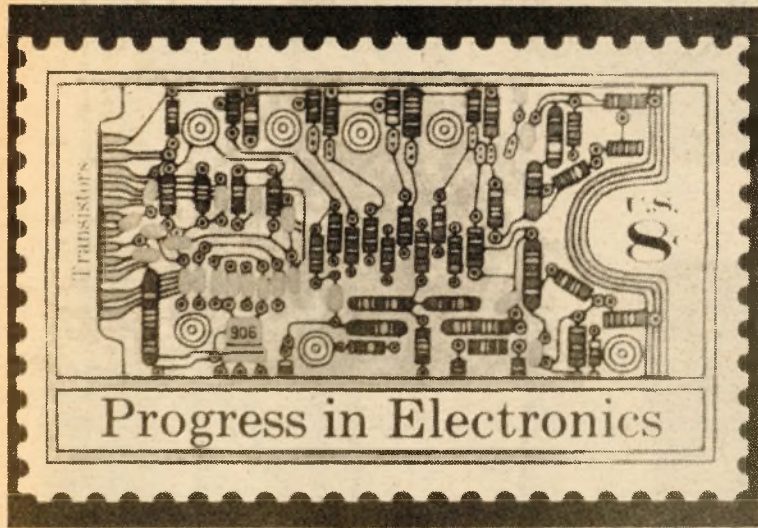
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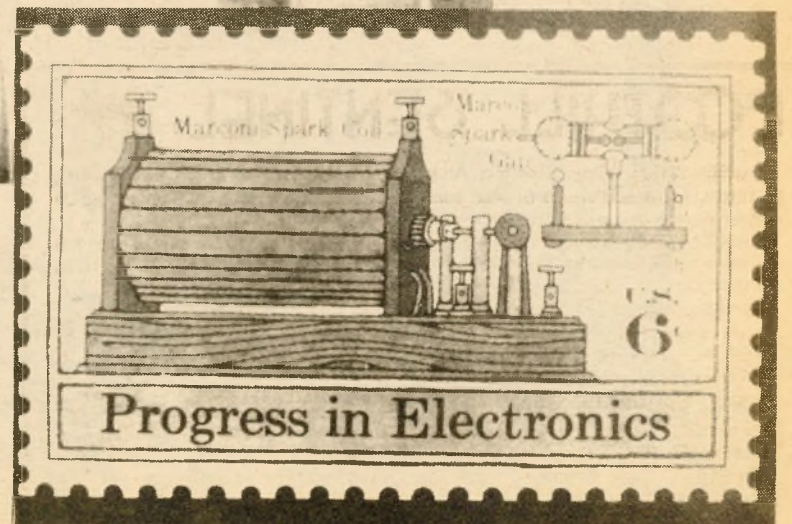
Foothill College

# Electronics Museum

Special feature



PHOTOS BY ASHLEY DEVORE





# Electronics Museum

By LANDONIA GETTELL

A melodic chime announces the visitor at the door of the Foothill Electronics Museum. A slender man with a weathered face come smiling from an office down the hall, "Is this your first visit?" Leonard Lansdowne is one of a group of dedicated workers who, with the Perham Foundation, keep the Museum open for its public of tourists, nostalgic radio buffs, students of computer science and wide-eyed school children.

The Museum is a center for the study of radio and electronics history, especially of the part played by Californians. The electronics age is barely a century old. Its artifacts are not yet prized by everyone. When out of date, they risk being thrown away or sold in flea markets. In the Museum such relics are arranged to tell the story of a new force which is changing how we live.

Hands-on exhibits demonstrate the underlying electric and electronic principles. Among these displays are a spark-gap apparatus, like the one with which Hertz made the first radio waves in 1888, and a cathode-ray tube, the 1890's ancestor of the television tube. A reproduction of the spark transmitter which was on the Titanic

and an early crystal receiving set exemplify early 20th century technology. The Museum also displays a number of Lee de Forest's vacuum tubes, invented during this period. This device made transcontinental telephone service possible and was fundamental to the explosion of radio use in the years after World War I.

The Museum exhibits radio sets from the 20s and 30s and a mock-up of a store selling such parts as vacuum tubes, capacitors, coils, transformers, all huge by today's standards. The collection includes several kinds of klystron, in use since the 40s. This tube, invented at Stanford University, made airborne radar possible for the RAF in the Battle of Britain and in a 6-foot version energizes electrons in the Stanford linear accelerator.

The visitor can see calculators which, though the state of the art in 1965, are larger than today's home computers, but do no more than one a housewife can now tuck in her purse. An entire wall is covered by an exhibit showing how the functions of a shelf of vacuum tubes are built into a slice of silicon crystal not so big as a pinky fingernail.

The nucleus of this collection came from Douglas Perham, an



Electronics Museum Curator Leonard Lansdowne in mock-up of a radio store.



Leonard Lansdowne in the Museum's short wave radio station, WBGWSL.

electronics pioneer who lived and worked on the Peninsula south of San Francisco, according to William Patton, vice president of the Perham Foundation and chairman of its Exhibit Committee. Perham was one of the earliest radio enthusiasts. As a boy he unscrewed the brass balls from his mother's bedstead to make his spark transmitter.

Over the years, Perham saved much of the equipment he had made when it became obsolete, as well as salvaging other people's throw-aways. The History Committee of the Institute of Radio Engineers (later the Institute of Electrical and Electronics Engineers) helped Perham with his private collection and, when he could no longer maintain it, organized the Perham Foundation to take care of and find a home for the collection.

The collection came to Foothill College when President Calvin Flint offered a site and helped get a government grant to supplement the building fund which the Foundation had raised from local electronics firms. Marie de Forest, widow of the inventor, donated her husband's collection and his library.

The Museum opened in 1973, was staffed and maintained by Foothill College, but in 1977, when Proposition 13 passed, the college withdrew support. The Perham Foundation kept the Museum open by paying the curator's salary. When the original curator went on vacation, Lansdowne, retired from a career in the U.S. Army Signal Corps, was asked to fill in. The previous curator never returned and

now Lansdowne is one of the old-time radiomen, collectors and retired engineers who cooperate to keep the doors open and care for the collection. To meet running expenses, visitors are asked to make a donation, and the Museum sponsors a flea market several times a year.

Lansdowne is Radio Officer and Property Officer for the radio clubs which meet at the Museum: the Electronics Museum Amateur Radio Club (EMARC) and the Foothill Amateur Radio Club. Club members talk around the world with other hams on the Museum station WB6WSL. They send emergency messages, swap equipment and news of the latest devices and learn how to make repairs. Three times a year EMARC conducts classes for anyone wanting to share their enthusiasm.

Members of these two clubs function as an emergency facility known as the Southern Peninsula Emergency Communication System. SPECS has a repeater on the roof of the El Camino Hospital in Mountain View. Every Monday at 8 p.m. the members hold a drill with their transceivers, some hand held, some in vehicles and some in their homes. Typically, 80 members participate. In an emergency they assist firemen, police and relief workers.

Thirty men from SPECS went to Coalinga to coordinate relief efforts after the earthquake there. During the Olympics, SPECS efforts provided communication for security at Stanford Stadium. They also gave the athletes a chance to talk to family and friends back home.



# Electronics Museum

Begin the Museum tour with the hands-on exhibits. Of course, you will have to fight the children for them. Be adult. Wait your turn and watch. They put their moist little palms on the metal hand, half copper separated slightly from the zinc half. The indicator rises slowly, showing that they have done as Volta did. By connecting two unlike metals with an electrolyte, they have caused a current flow. They squeal when a few vigorous turns of a crank induce enough static electricity for the ball to emit doll-house-sized lightning. They press a button and Hertz' apparatus sparks and answers its spark. Dead matter is not dead. It is energy that, when arranged in certain ways, reveals itself. The history of electricity is what arranged and what is revealed.

Electronics begins with Heinrich Hertz, a German physicist. Physicists were debating whether Maxwell's equations could possibly be right. The equations claimed to describe the behavior of electric and magnetic fields and predicted that as waves — electromagnetic waves — these fields would travel through space. Hertz proved Maxwell's theory. He sent a spark across a gap in a circuit and showed that it

induced another spark across a tiny gap in a circuit on the other side of the room. These were the first radio waves, in what we call the micro-wave range.

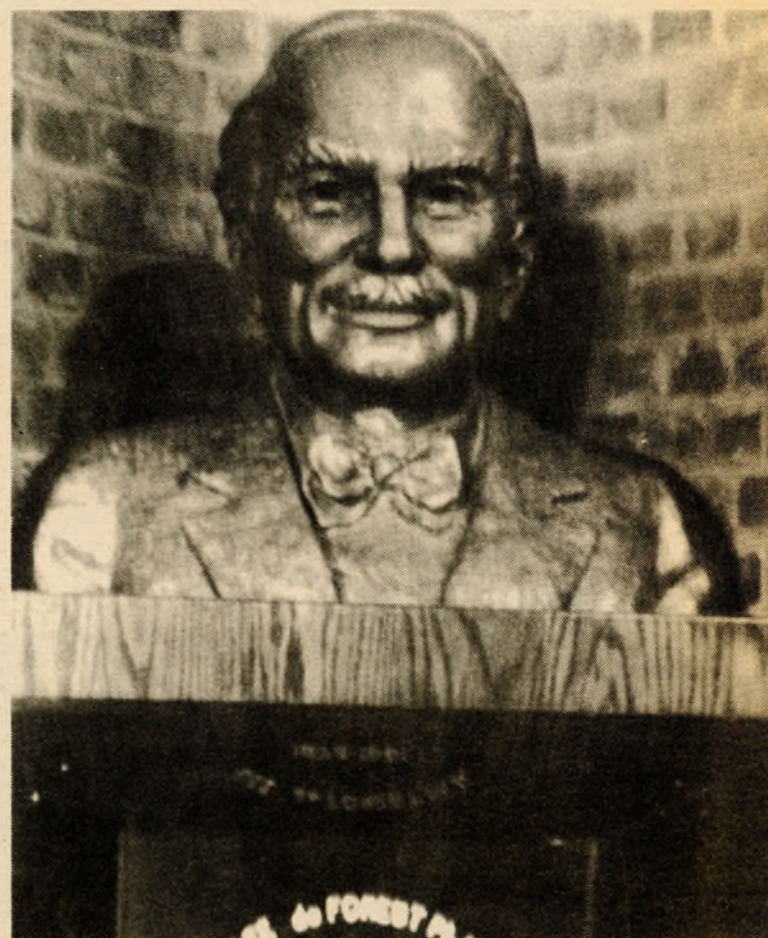
Guglielmo Marconi showed that longer Hertzian waves — what we call radio waves — could be detected miles away. He began to promote a wireless telegraph. As Jane Morgan shows in "Electronics in the West," boys and young men found this as marvelous as their descendants find computers today. They built transmitters and crystal receivers. They spent every spare moment with their instruments and boasted to each other of how far away they had heard and been heard. Like today's hackers, they talked a language their parents could not understand, and their elders never quite knew what they were up to.

Actually they didn't know what they were up to either. Their instruments induced huge voltages in the wires of neighboring houses, which blew out light fixtures. One especially powerful transmitter in a house on Haight Street in San Francisco induced a spark that jumped over the insulation in a room where there was a gas leak.

The explosion blew the brick front wall of the house into the street.

The museum has a crystal receiver like those which these boys built. Many of the youngsters later want to sea as radiomen. Visitors may operate the Museum's replica of the Titanic's transmitter. It crackles and sparkles like the 4th of July and makes it easy to see why a ship's radioman was called "Sparks." "Send anything but S.O.S.," warns Lansdowne. "Your message is being broadcast."

The next step was from dots and dashes to talk by radio waves, using an arc transmitter. The Museum has a dual layout, showing how both spark and arc transmission work. The crucial difference is that a spark sends out a train of discrete pulses which vary in amplitude, or strength, from a maximum to nothing many times a second, whereas an arc sends out a wave train of constant strength. The frequencies of sound can be superimposed on a constant-amplitude carrier wave as they can not on the varying-amplitude pulses from a spark. Such waves, "amplitude modulated" by being made to vary in strength at the frequency of sound, can be picked up and converted back to the original sounds



Memorial for Dr. Lee de Forest, inventor and tinkerer.

by a suitable receiver called, of course, an AM receiver.

The arc transmitter made Charles David "Doc" Herrold's radio station possible. His equipment is on display, just behind the spark-arc exhibit. Jane Morgan tells how, beginning in 1909, Herrold broadcast the first regularly scheduled radio programs from San Jose, using an arc transmitter. His wife was the disc jockey. She played records from a local music store and advertised the store. There were guest speakers, news and weather reports. Herrold founded a College of Engineering and Wireless, which he advertised on his station. He promoted the station by making receivers and giving them away. The station was sold several times. KCBS in San Francisco is its lineal descendant.

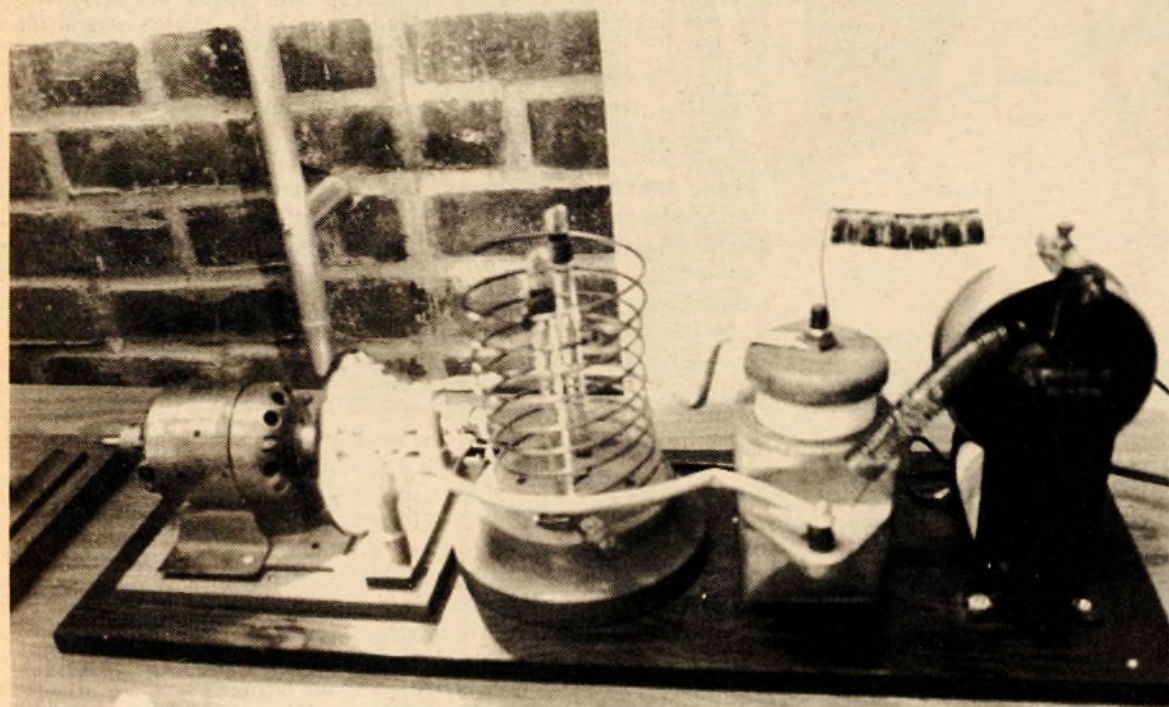
The Museum has a large collection of the three-element vacuum tube called a "triode." Lee de Forest, its inventor, and a number of others, independently, discovered in 1912 that the triode could amplify radio frequency signals and also that, if the output of an amplifier tube is fed back into its own output, the tube becomes an oscillator and a stable source of radio frequency signals, useful for transmission.

De Forest was a tinkerer. He modified the basic diode vacuum tube, which was invented by Alexander Fleming, an English engineer and teacher, and which replaced the crystal as a radio wave detector. De Forest thought that the diode could be improved by some sort of third electrode. He tried several kinds and arrange-

ments before settling on a grid of fine wire between the filament and the plate. He was granted a patent in 1908. The device wasn't much of a detector, but as an amplifier made transcontinental telephone service possible by strengthening the signals at intervals. Amplifying, rectifying, transmitting, the triode became the workhorse of electronics. The museum has a monster, used for broadcasting and for heating plywood to dry the glue.

Russell Varian's invention in 1937 of the klystron, still another kind of vacuum tube, was as systematic as de Forest's work was cut-and-try. As Dorothy Varian relates in "The Inventor and the Pilot," Russell and his brother Sigurd, who turned Russell's ideas into glass and metal reality, were Californians and sons of Irish immigrants. Russell graduated from Stanford University and Sigurd became a flier. Russell knew what he wanted to do. His brother had asked him to invent a radar tube, that is, a vacuum tube to generate powerful microwaves which could be bounded off an airplane in flight to locate it. Russell made a list of 23 possible ways to design the tube. He pruned the list and classified the schemes. To be sure that he had missed nothing and could systematically investigate all possibilities, he added the velocity grouping principle, mostly because it seemed outside his other classifications. This turned out to be the principle on which he constructed the klystron. The Museum has several small klystrons and a large

(Continued on page 6)



Electronics Museum's replica of the Titanic's transmitter.



# Electronics Museum

one used for over-the-horizon radar. The microwaves in our ovens are produced by klystrons.

The Museum exhibits a magnified model of a transistor, the next advance in electronics. It was invented because a great corporation had a problem and the foresight to invest in fundamental research which might, or might not, point to a solution. American Telephone and Telegraph's central switching stations were growing ever larger and more complicated. Each increase in the number of elements increased the likelihood of system

failure as this or that relay became erratic. AT&T turned its scientists loose to investigate the fundamental properties of an obsolete radio element with a low failure rate, the crystal detector of the early radio receivers.

The crystal is a semiconductor. Due to impurities which free some of the electrons, which would otherwise be on duty linking atoms the crystal acts as a conductor under some conditions and as an insulator under others. Scientists understood this. But why, when placed between a metal block and a fine wire just

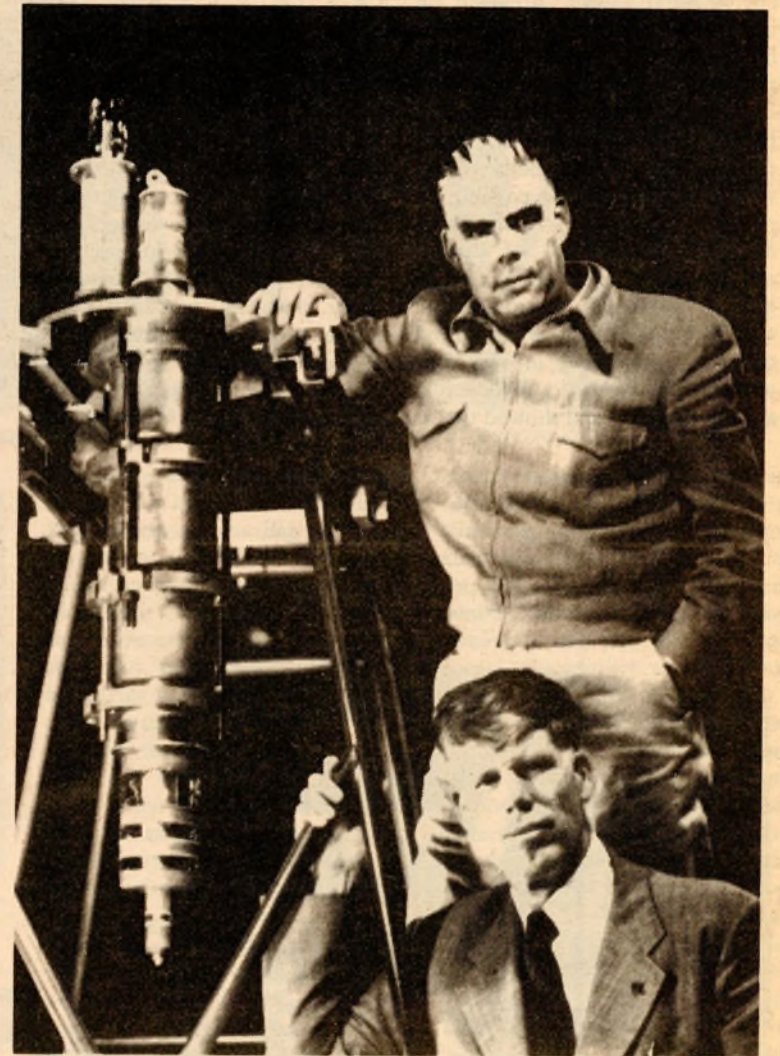
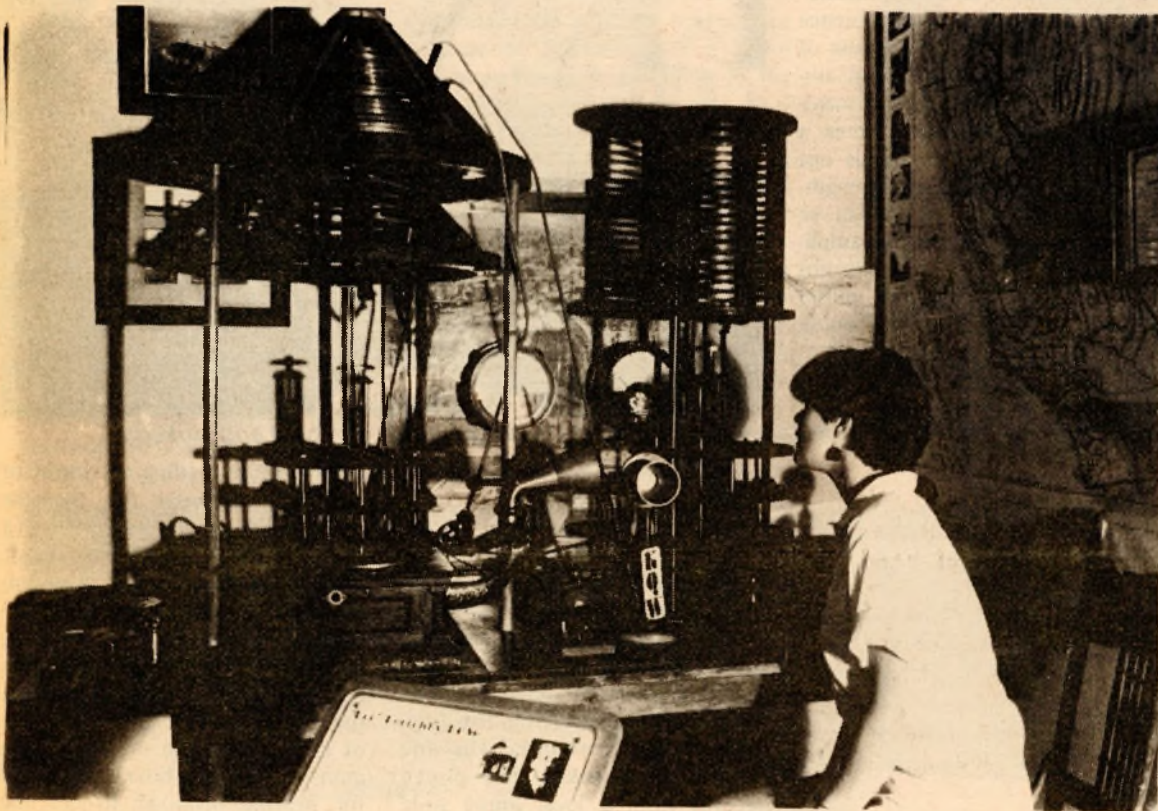
touching it (the "cat's whisker"), is the crystal a rectifier? Why does it let the oscillating current, induced by the oscillating antenna current, flow in only one direction? John Bardeen, William Schockley and Walter H. Brattain, of Bell Telephone Laboratories, showed that, because the surface atoms of the crystal have unfilled spaces (which would be filled by electrons if the atoms were in the interior), the surface of the crystal is a better conductor than the interior. In 1956 Bardeen, Schockley and Brattain were awarded the Nobel prize for

their discovery and for the consequent invention of the transistor. The invention won AT&T's gamble. Being solid, the transistor is sturdy and long lasting. It is also cheap and compact, uses little power and produces less heat than a vacuum tube.

Along one wall of the museum is an array of panels which explain the exacting process of making microchips. Microchips are direct descendants of the transistor and as tiny compared to them as the transistor is compared to the vacuum tube. Moreover, each tran-

sistor was a separate element, connected to the others by wires. In a microchip the elements and the connections are chemically built into a thin wafer of the semi-conductor, silicon. Large machines can be made small. Expensive ones become cheap. The chips become ever more complicated and, every year or so, we hear of a "new generation" of computers. But here the story of electronics has run out of the Museum into today.

"I hope that you enjoyed your visit," says Leonard Lansdowne. Indeed I have.



(Top left):  
Museum visitor views telegraph equipment.

(Bottom left):  
Dr. Lee de Forest with his lab assistant, Freeman Owen, Jr. Dr. de Forest is holding the small tube which makes possible the recording of sound waves.

(Top right):  
Brothers Russell and Sigurd Varian.



# Campus News

## Softball player named to All-Star team

By BILL MUSICK

Chris Shatas became Foothill's most honored softball player when she was recently named to the Nor-Cal All Star Softball team.

"This is the first time we've had a player named to the Nor-Cal team," said softball coach Elaine Rotty. "Chris has really worked hard and I'm glad to see her get the recognition."

Shatas is a sophomore and played catcher on this year's team. "Last year I played most of the season at short stop," said Shatas, "but this year our catcher got hurt and I volunteered to become the catcher."

"Nothing like this has ever happened to me before. It's really neat," said Shatas. "It really sur-

prised me to get picked because we didn't have that good of a record. We had a lot of injuries this year and that kept us from doing as well as we should have."

Shatas played on the basketball team at Foothill for two years and the volleyball team one year in addition to her two seasons of softball.

"Chris was the best all around player on the team," said basketball coach Gene Hawley. "We just could not get the ball up and down the court without her." She was the leading scorer for the team and was selected as the Owls' Most Valuable Player.

The highlight of the softball season was a 4-3 victory over De Anza, according to Shatas.

"They beat us in a game we should have won earlier and we really had something to prove when we played them again. There's really a good feeling when you beat De Anza," she said.

"I'll miss Elaine [Coach Rotty]. She's a good coach and I like playing for her. I wish I had another year," said Shatas. "I'll miss playing all the sports. I'll probably just look for a job and go to work."

Shatas took general ed and physical education courses at Foothill. "I never found anything I really liked or wanted to do," she explained. "I do like it here at Foothill, though. Who knows - maybe I'll come back in the fall and play another season of volleyball."



All-star softball player Chris Shatas

## One-Acts - tough acts to follow

By RHONI GILKEY

It should have been standing-room-only Saturday night when Foothill Drama Department presented an "Evening of One-Act Plays" in the Studio Theatre.

"Hello Out There," a William Saroyan play directed by Jon Patrick Selover, with principal players Baron Sarto and Alexandra Brodmann, was worth the admission alone. However, three other productions rounded out the evening with a light and sometimes hilarious tone.

The audience remained transfixed throughout "Hello Out There." One could have heard a pin drop - or a tear splash. Sarto and Brodmann played the leads as if they were visitors from Broadway. Well, maybe they were.

Kathy Jacobson and Tim King, playing Hubladee and Hubbladoo, led us gently (and humorously) into a change of pace created by the final selection of the evening, "U. Youidiot," a "zany play concocted by B.W. Ryan and the Cast."

The players seemed to have borrowed a little May Mayhem from Foothill Radio Station KFJC to illustrate the dichotomy of human nature. All the characters seemed to have two distinct personalities, each appearing spasmodically to make a point.

The cast, Joshua Pollack, Bob Compani, Vanessa Walker, Kennard Gray, Marguerite Foster, Don McMillan and Jimmy Hancock, were well chosen for their parts and got their messages across while being very entertaining.

Tim King gave a strong performance in both the Edna St. Vincent Millay play "Aria da Capo," directed by Jay Manley, and Christopher Durang's "The Actor's Nightmare," directed by Janis Cortez who was assisted by Rich Curtis.

Judith Sorenson, Jimmy Hancock, Don Dufford and Rich Curtis filled out the cast of "Aria da Capo" with great flair.

In "The Actor's Nightmare," King played the lead with just the right comedic touch, while Mikel Sooter, Carol Emerich, Allison Kubiak and Donald McMillan provided plenty of additional laughs. It's unfortunate the plays ran for only one weekend because those who didn't attend missed an interesting evening of theater.

## Moldy oldies

(Continued from page 2)

"You were elected to represent the opinions of students," Catherine Teegarden said, "but you haven't been. There is a difference of opinion between the administration and the students at Foothill; you've got to represent our side." Teegarden specifically meant that the ASFC government did not give enough support to students during the Cusack House fracas.

The council was pressured by the students to approve a constitutional amendment which would allow all students present at council meetings to vote on motions before the council. Previously only the 21 council members had a vote.

Another motion changed the

meeting time for the council to 9 a.m. Tuesdays so that more students could attend meetings, and the third amendment barred fa-

culty and administration "baby-sitters" from meetings "except upon invitation of the voting students."

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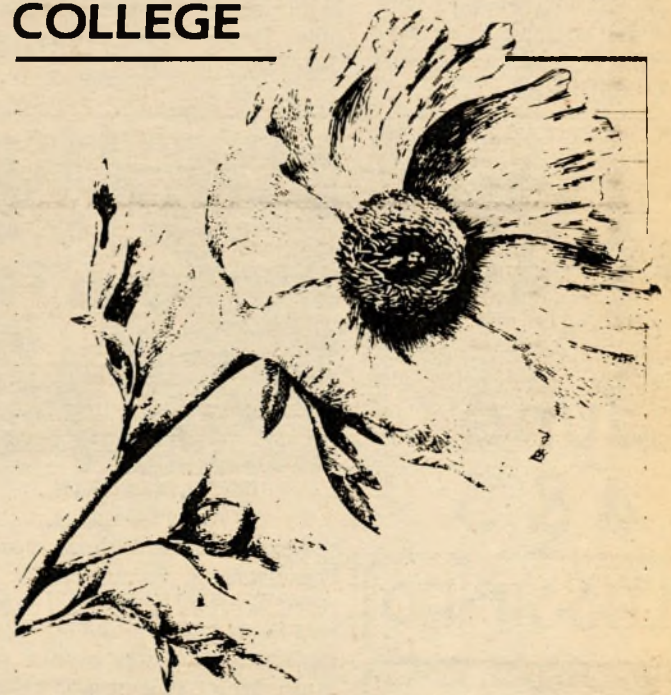
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Twenty of the Peninsula and South Bay's top music, dance, theatre, and opera companies will perform at the Performing Arts Alliance Summer Festival at Foothill.

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# ★ ASFC election candidates ★



**ALISON GOOD**  
ASFC President

In the last four months I have been appointed Elections Director, then Community Festival Director, and, recently, interim Finance Director. As Elections Director, I increased the percentage of students who voted; as Community Festival Director, I led the committee that pulled the festival together in just eight weeks; and, as interim Finance Director, I am leading the committee that is putting together next year's progressive budget in just four weeks. In these appointments I have proven my flexibility, my leadership, and my organizational skills. Let my record, and abilities, continue to work for you: VOTE FOR ALISON GOOD, ASFC PRESIDENT.



**JEFFERSON CURRY**  
ASFC President

Next year's Student Council will be faced with the formidable task of spending roughly twice the money as last year. Through my past work as Vice-President, I believe I have gained the experience and knowledge necessary to guide Council to spend your money wisely.

I plan to help you by expanding the Book Exchange to combat the outrageous bookstore prices, providing more financial support to Campus clubs and financial aid programs, building up our activities program to include bigger, more participatory events, and much more. Please vote for Jefferson on June 4 or 5.



**JOHN SHAPIRO**  
ASFC President

Dedication, experience, and a commitment to leadership. These are three things that are very important to me, and as President I will offer them to you, the Foothill student body. My qualifications include my being a current ASFC Senator, OBD Vice-Chairman, and an active member of the Campus Council for this entire school year.

I believe more funds should be allocated to the day student population at large and to the rest of our students as well. In addition, I will increase school-wide activities as well as academic supports. Finally, I genuinely care about Foothill College and if elected I promise a 100 percent commitment to my duties and Foothill College.



**RALPH LANGENHEIM**  
ASFC Vice-Pres. of Administration

Welcome to Foothill College. Activities and a virile student government are crucial means by which you, as a student, can fulfill your academic and many of your more deviant social endeavors. Let's get active! Let's perpetuate the peerless tradition of excellence at Foothill and please vote on Election Day(s).



**JOHN ROACH**  
ASFC Senior Senator

When I first entered Foothill, I asked myself, "How can the ASFC bring all the different cultures and political factions together as a coherent student body unified to the principles of 'one for all, and all for one'?" As Social Affairs Director, I took one of the first steps in achieving this goal.

As Senior Senator, I will dedicate my time and efforts towards the realization of this goal.

Unopposed

Unopposed

ASFC presidential candidates will give campaign speeches Friday at 9:30 a.m. in the main dining room of the Campus Center

**VOTE**  
ASFC

**June**  
**4 & 5**

**CLASSIFIED**

The Foothill SENTINEL runs free classified ads for students holding a current Owl Card. Ads will run for two weeks initially.

Bring ads to the SENTINEL office (M-24) on Mondays from 1:30 to 2 p.m. Extension requests must be made at this same time.

Ads are 25 words or less; the first name and telephone number must be included; content of ads is subject to SENTINEL approval.

—FOR RENT: Motorbike Yamaha 50cc, red, exc. condition. \$250. For more information phone Marc Oberon 415/965-8619 between 8 and 10:30 p.m. or leave message.

—FOR SALE: Ovation acoustic guitar with hard case, strap and extra string. Mint condition. Best offer. Call Mike Belaf at 967-4804 or leave message at SENTINEL office (M-24).

—TALENT SHOW applications available in the Student Activities office -- sign up now! First show June 4. This is your chance to get paid for your unique skills!



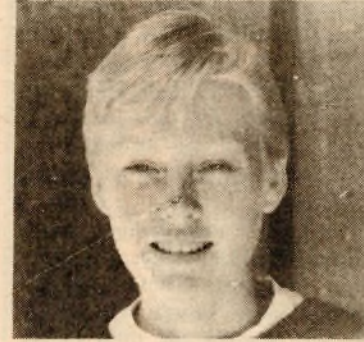
**REID AINSWORTH**  
ASFC Senator

My name is Reid Ainsworth and I am running for the office of ASFC Senator. If elected, I would help Foothill College and my fellow students in any way possible. As a member of student government, I would listen to any ideas you have about helping or improving Foothill.



**ALEC GLASSFORD**  
ASFC Senator

Through my active involvement in AGS, FAC, and ASFC, I believe that I have proven my qualifications. Student Council has been a good experience for me and I hope to continue on as Senator. Student Council is doing a wonderful job, and I am looking forward to further involvement.



**KATIE HAUSER**  
ASFC Senator

I am obsessed with student activities! I have participated on the track team, am in the Honors Program, and worked on the Community Festival. Now I want to get involved in the Student Government, and devote more of my energy to the Foothill student body, by running for the position of Senator.



**TIM SCOTT**  
ASFC Senator

Having already spent one quarter here at Foothill, and in anticipation of spending many more, I want my experience here at Foothill to be not only educational, but rewarding too. Student government is one of the ways I can achieve this, and with your support I know I can be an effective leader and make your experience here at Foothill more enriched.

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## Overeaters

(Continued from page 1)  
us here."

What OA does offer is a support system, a friendly place where overeaters can discuss what's disturbing them without fear or embarrass-

ment. Between meetings, when individual willpower flounders, members can call each other by phone for support. "We can heal ourselves through each other's strength and unity," said Thelma.

OA is an international organization founded in 1960 and based on the 12 principles of Alcoholics Anonymous. Meetings at Foothill began four weeks ago and are held every Tuesday at 12:30 p.m. in C-31 of the Campus Security Building.

### ALCOHOL & DRUG RESOURCE CENTER

If you want to drink and use drugs that's your business; if you want to stop, that's my business. David Gibbs, 325-7045. On campus: Room B-5, 12:30-2:30 p.m., Monday - Friday.