

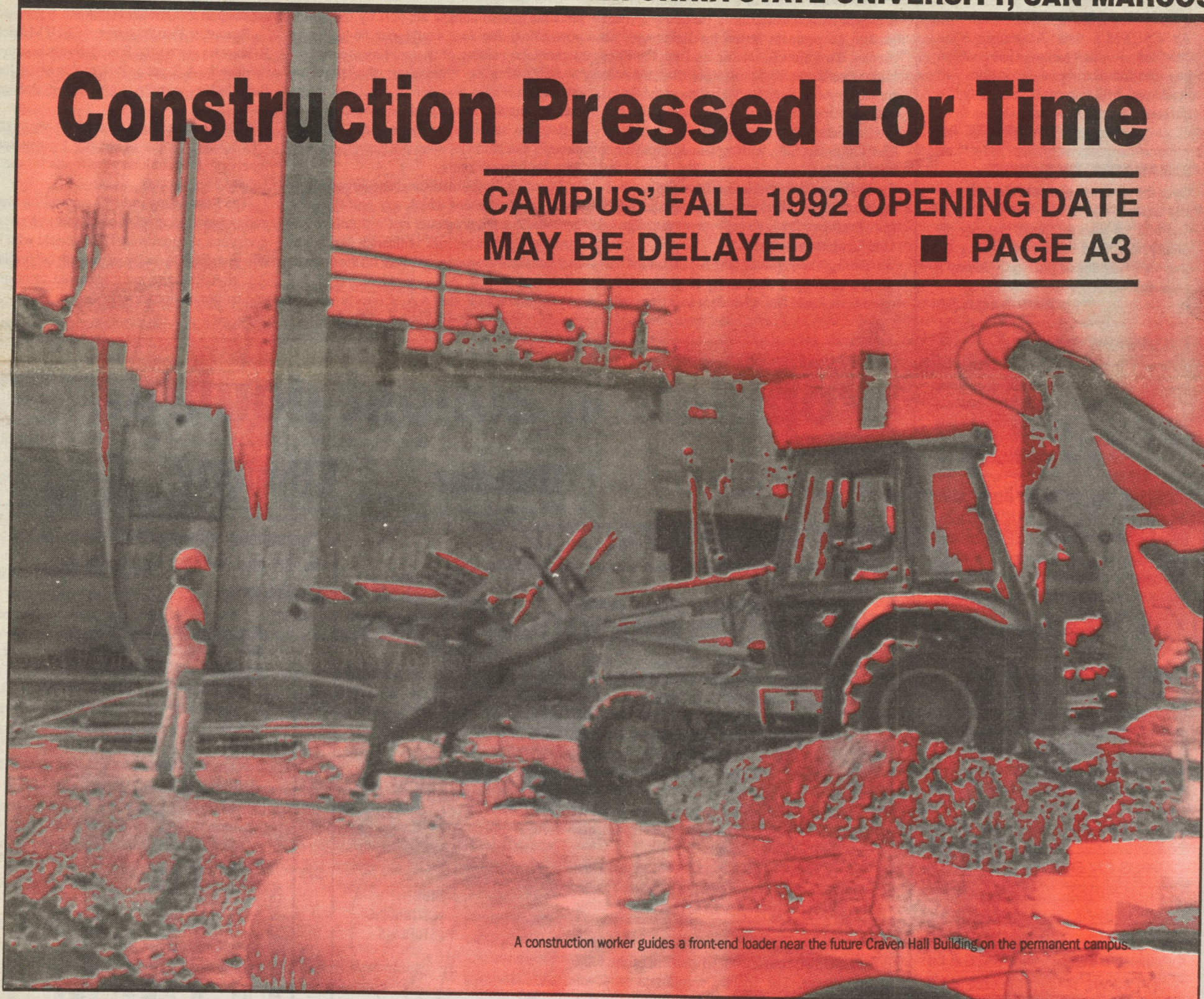
# PIONEER

TUESDAY, SEPTEMBER 3, 1991  
VOLUME 2, NUMBER 1

SERVING CALIFORNIA STATE UNIVERSITY, SAN MARCOS

## Construction Pressed For Time

CAMPUS' FALL 1992 OPENING DATE  
MAY BE DELAYED ■ PAGE A3



A construction worker guides a front-end loader near the future Craven Hall Building on the permanent campus.

cover photo by JONATHAN YOUNG/PIONEER

**Foundation loans  
funds to A.S.** Page A2

**Trash plant conflict  
continues** Page A8

**Dinos return again,  
in Explore** Page B1



# NEWS

## INSIDE

Tuesday, September 3, 1991  
Volume 2, Number 1

### MILLMAN SHARES VIEWS

As CSUSM's new Academic Vice President, Richard Millman has goals on how the future campus curriculum will be shaped. Millman speaks candidly in a question and answer session.

**NEWS/PAGE A6**

### SAN MARCOS' TRASH WOES

Over the summer, plans for a controversial trash-to-energy plant in the city of San Marcos were scrapped. But city officials now have to face a growing dilemma; where does it put North County's garbage.

**NEWS/PAGE A8**

### EVALUATIONS IMPORTANT

To some, student evaluations amount to nothing more than a popularity contest. Yet, with the high average age of students at CSUSM, evaluations become an important consumer tool.

**OPINION/PAGE A15**

### BUILDING THE PERFECT DINOSAUR

A firm in Irvine, Dinamation International, earns its living by building robotic dinosaurs. Seen in museums and parks throughout the country, the animated beasts stir controversy about the prehistoric world.

**EXPLORE/PAGE B1**

### LIGHTS... CAMERON... ACTION

James Cameron, director of the summer's blockbuster 'T2', is more than your average action director. His treatment of women brings heroism to something other than men. Wendy Williams reviews 'T2'.

**ACCENT/PAGE B9**

NEWS	<b>PAGE A2</b>
CAMPUS CALENDAR	<b>PAGE A4</b>
HEALTH NOTES	<b>PAGE A4</b>
CAMPUS BEAT	<b>PAGE A7</b>
CARTOONS	<b>PAGE A12, B14</b>
OPINION	<b>PAGE A14</b>
'YOUR VIEWS'	<b>PAGE A15</b>
EXPLORE	<b>PAGE B1</b>
ACCENT	<b>PAGE B9</b>
CALENDAR	<b>PAGE B11</b>
CLASSIFIED	<b>PAGE B15</b>

## A.S. gets loan from Foundation

**KIM COURTNEY/PIONEER**

Cal State San Marcos' Associated Students are starting their first year in the red.

Due to the failure of a key measure in last semester's student election's, the newly formed student government began its duties with no money. To gain capital for its first semester budget and to qualify for incorporation, the A.S. turned to the University Foundation for financial assistance.

The Foundation responded with a loan of \$12,920 to the A.S., with a planned repayment over the next three semesters. The Associated Students are planning fund-raisers and promoting the passage of ballot measures next semester to collect fees for loan repayment and Spring 1992 operational fees.

"During the summer, the A.S. Council devised a strategy to find a way to get funds for operations," said A.S. President Jose Chapman.

Lack of funds for the A.S. became apparent after a measure on the spring ballot enabling student government to collect student fees failed to be passed.

Even though a measure assessing a \$15 fee to students gained narrow support by the voting population, the fees could not be collected without the passing of an enabling measure.

According to Chapman, the enabling measure's failure was due to difficulty in understanding the wording of the measure on the ballot. He said the language was confusing enough that students were not entirely sure on what they were voting.

Wording for the measure came directly from Title V, a document which sets guidelines on how student governments in California are to operate. Some students indicated during the elections that they were not clear on the purpose of the measure.

Chapman said the A.S. Council worked

during the summer to clarify and summarize the wording of the Title V measure so students will better understand its meaning. The enabling measure along with the previous measure assessing student fees will be reintroduced to the students in an October election.

Executive Vice President of CSUSM, Richard Rush, who sits on the Foundation's board, said helping the A.S. get on its feet was a way for the Foundation to help support the university community.

"The Foundation is a non-profit organization which supports the university by generating, receiving and administering funds for the university," Rush said.

The Foundation is a self-supporting organization which receives funding through gifts and donations. Approximately 70 people who have donated \$5,000 are recognized as founders. Additional monies were garnered from grants and corporate donations.

## Population almost doubles

### Student ethnicity low; Gender

The more things change, the more they stay the same.

Even though Cal State San Marcos' student population recorded a 43 percent increase, it has grown little in terms of ethnic diversity. CSUSM's faculty profile, on the other hand, reflects a degree of ethnic diversity that tops both nationwide and Cal State system averages.

The student population reached 1,114 as of August 27 with 730 students qualifying for Full Time Equivalent (FTE) status. In order to qualify for FTE status, a student must hold 15 units or more.

Michael Yee, of the Office of Admissions and Records, says the number of FTE students falls short of projections.

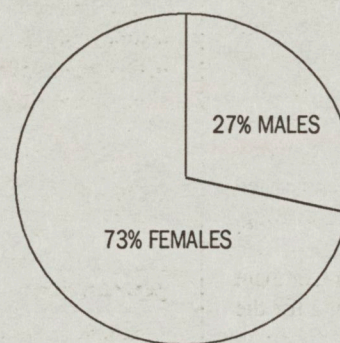
"We're still under the number of students we would like," Yee says. The university was hoping for 750 FTE students. FTE is a determining factor for state funding.

Women continue to dominate the population of CSUSM, comprising 61 percent of the total enrollment. The female enrollment is down from 74 percent last semester. The average age of students still looms at 29.

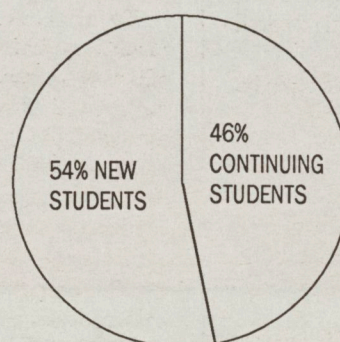
"We're looking at reentry women at this age, rather than the typical college cohort" said Vice

**SEE GROWTH/PAGE A12**

### Gender



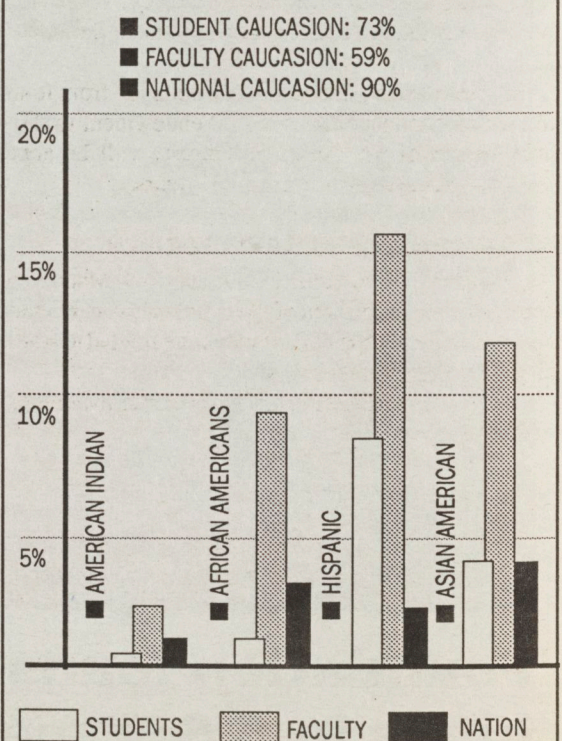
### Eligibility



**SOURCES:** Admissions & Records,  
President's Office  
**graphics by JONATHAN YOUNG**

### Ethnicity

Comparison between CSUSM students, faculty and national faculty ethnic breakdowns.





## News Briefs

### Designers get seal of approval

Graphics Solutions, a full service graphic design and sign planning firm, has been retained to provide design concepts, working drawings and bid specs for the "Founders Seal" to be inset in the paving of the Founders' Plaza at the permanent CSU San Marcos campus.

The bronze and terrazzo seal will include symbolic imagery representing the founding of the university: the initial three colleges, the school's mission statement and names of the one hundred initial founders," said Simon Andrews, Graphic Solutions' Principal.

The permanent campus is scheduled to open in 1992.

### College of Education offers new course

The College of Education has announced the addition of "Education 471, The Secondary School," this fall as a service to students who want to get their undergraduate degrees here and enter a Single Subject Credential Program at San Diego State University.

This course is a required pre-requisite for the SDSU program that is impacted on their campus. The Director of Teacher Education at SDSU has confirmed that this new class will be accepted as a substitute for their course.

This is the only time this course will be offered during the 1991-92 academic year. Next semester, the College will offer another pre-requisite course in multicultural education.

### Shuttle Service Discontinued

During the 1990 spring semester, Library Services subsidized a van which shuttled students to the SDSU Love Library up to nine times a week. Because only 14 students utilized this service and due to economic reasons, the Library has discontinued the service.

### Spanish proficiency added

In January, 1994, Cal State San Marcos will implement a new factor in admitting students to all credential programs in the College of Education. At that time and thereafter, the College will ask applicants to describe their facility in Spanish and it will be a factor in making admission decisions.

The College of Education will not require that all admitted students know Spanish, but it will be one of a number of factors taken into account in the admission process.

### Volunteers needed

Volunteers are needed to help with Cal State San Marcos' first International Festival scheduled for Oct. 27. Those students interested should contact the Vice President of Student Services Office in Bldg. 125.

The festival was established by a donation from Itoman & Compant Ltd., which announced a \$500,000 endowment to the college for the establishment of the event. The money will be apportioned out in \$50,000 increments over the next 10 years.

### Scholarship information available

Scholarship information for Cal State San Marcos students is maintained in the reception area of the Scholarship and Financial Aid office, now located in building 800. Students are invited to stop by and research scholarship opportunities.

As new scholarship information becomes available, notices will be posted in Pioneer.

### Clubs Forming

■ Ocean Sports Club: Membership is open to everyone who enjoys ocean sports and is concerned about preserving the cleanliness of the oceans. For more information on meeting times, call Roy Latas at 931-0311.

■ A Future Teacher/Educators Club is now forming. If you are interested organizing or participating in this club, please contact Carol Aguilar, College of Education Representative, at the Associated Students Office, Building 135, Room H, or leave a message at 484-0439.

# Campus Construction

## Work on permanent site continues after setbacks tightened schedule

LARRY BOISJOLIE/PIONEER

After suffering from a prolonged contractor's dispute and heavy March rains, construction of Phase I on Cal State San Marcos' permanent campus off Twin Oaks Valley Road may not be completed by the fall 1992 deadline.

Phase I includes the \$14 million Craven Hall, an academic core consisting of one lecture hall and a laboratory facility and the campus' physical plant, which will house receiving and handling.

"It's too tight to call right now," said Albert Amado, vice president of Physical Planning and Campus Construction. "The project lost three and a half months with the contractor's dispute."

In September, construction on the nearly \$50 million project ground to a halt after grading subcontractor C.W. Poss claimed that contractor Louetto Construction Inc. failed to pay them 1.3 million for work already completed at the site.

Louetto was terminated from its responsibilities at the permanent site in October and replaced with Lusardi Construction Company.

Worries that drought-induced water rationing would impede construction at the site were drowned when heavy rainfall hit San Marcos in March. The "March Miracle" left the ground too muddy thereby hindering progress.

"The ground under Craven Hall was so saturated, we had vehicles getting stuck in the mud," Amado cited. "We lost some time there."

Construction projects typically experience weather delays, said Amado, but having lost valuable time in the contractor's dispute, much of the construction schedule's buffer time was lost.

Amado said Lusardi recently completed its function of preparing the site, putting the project back on schedule. "We're pleased with the quality of work done by Lusardi," Amado said.

Already the campus' main drive is completed with water, reclamation, electric and gas lines installed. Trees with activated irrigation systems are in place and buildings are beginning to rise and take shape.

Four different contractors are working concurrently on the project, adding further complexity to the

building task. Amado said the contractors have been working well to coordinate their tasks with other contractors.

Foundations for the lecture and lab buildings are almost complete, said Amado. Meanwhile, workers are almost finished with the framework and deck systems in the lab building. This week steel frame construction is set to begin on Craven Hall and will continue for six weeks.

The six-story Craven Hall will be the first "feature building" on the campus and will house all of the \$2 million in computer systems used to run the first phase of the campus. It will also serve as the campus library and house administration.

Craven Hall set construction bidding standards for the new campus when Bodell Construction of Salt Lake City, bid \$1.4 million below the buildings budgeted cost. Amado said at the low-bidding trend should continue throughout the entire construction project.

The university is in the process of seeking cladding materials and concrete for Craven Hall's stucco finish.

SEE **CAMPUS**/PAGE A7

## Rooms moved to accommodate growth

JONATHAN YOUNG/PIONEER

While it will take both new and returning students time to get used to where everything is on campus, administrators say the reorganization of offices and departments will better serve the students.

To accommodate over 50 new faculty and staff members and about 500 new students expected this semester, Cal State San Marcos spent the month of July moving, expanding and remodeling the majority of the offices and classrooms on campus. The moves were a result of a year of planning.

"Our first priority was student access to faculty and Student Services," said Pat Farris, Director of Support Services. "We wanted to disrupt the students as little as possible."

Farris served on the Space Planning Task Force, which began meeting last October. Their review of available

space compared to the needed space was reported in February.

The result: CSUSM needed more rooms.

In May, however, SDSU President Thomas Day announced harsh class reductions due to budgetary restraints. All but the teacher credential classes were cut at the North County campus. SDSU cuts included over 500 classes dropped on the main campus, which gave CSUSM an additional 39,000 sq. ft. to work with.

"Had that space not been available to use, we would have had to seek additional lease space elsewhere," Farris said.

Of the total acquired space, the Library encompasses 11,000 sq. ft. Farris pointed out that the Bookstore, Health Services and Admissions and Records space was also SDSU's.

"Building 800 is the only building that was totally SDSU," said Ivalee Clark, Assistant Director of Support

Services. Clark added that some other classrooms and facilities were used by both universities. "Last academic year, there was a lot of sharing."

Clark said Building 125 had the most shuffling.

The Scholarship and Financial Aid offices moved from Building 125 to Building 800. That move made it possible for the offices of Student Affairs to expand.

"All of Business Administration and the College of Education got moved around ... and portions of Arts and Sciences, Student Affairs and Accounting," Clark said.

The reorganization now puts faculty and staff members of the same Colleges together.

"All of the College of Education, College of Business Administration and most of Arts and Science are now together," said Clark. "They were all

SEE **MOVE**/PAGE A12



# Campus Calendar

## A.S. Hosts Ice Cream Social

The Associated Students is hosting an Ice Cream Social on Sept. 6 in the Student Union. The Ice Cream is to be donated by the Nordahl Baskin Robbins. Contact the A.S. in Building 135, Room H, for more information.

## CSUSM partakes in Mexico celebration

Cal State San Marcos will be participating in the Second Annual Fiestas Patrias celebration sponsored by the Amigos Del Valle Escondido.

The celebration is in honor of Mexico's Independence Day and will be held at Kit Carson Park in Escondido on Sept. 14 from noon to 9 p.m.

CSUSM will have an informational booth at the festival. Volunteers to assist with answering questions about the campus and programs available, and handing out balloons, pencils and bookmarks are needed from until 5 p.m. Students interested should contact the Student Affairs Office.

Also in honor of Mexico's Independence, four noon-time concerts will be performed the following week in the Student Lounge:

- Sept. 16 - Los Alacranes perform traditional Norteño music
- Sept. 17 - Miguel Lopez will play the Vera Cruz harp
- Sept. 18 - Mosaico - six piece progressive Norteño ensemble
- Sept. 19 - Es O Es, a 10 piece Latin jazz band

## Psychology group gathers

The Cal State San Marcos Psychology Student Organization is hosting its first annual "get acquainted" social today, Sept. 3. The event is in Building 145, Room 3, at 4 p.m.

## Workshops Planned

The Career Placement and Counseling office has scheduled a variety of workshops and seminars throughout the semester for students. The upcoming events are:

- Stress Management: Everyone needs to learn techniques to control the level of stress so it won't interfere with academic performance. Workshops on Sept. 5 at noon, and Sept. 13 at 1 p.m.
- Note Taking: Review of Note Taking techniques to effectively prepare for exams. Seminar on Sept. 6 at 11 a.m. and Sept. 9 at noon.
- Resume Writing: Learn the most current formats, content and reproduction guidelines. This event is scheduled on Sept. 10 at 12:30 p.m.

The Career Planning and Placement Office also offers Resume Critiques as a regular service.

- Job Search Strategies: Know yourself and your options, then identify and research employers. Traditional and non-traditional techniques to find the employer best suited to your needs. Workshop is on Sept. 16 at noon.

The Career Planning and Placement Office also provides job and career position listing as a regular service.

Each event in one hour in length.

For room location, contact the Career Planning and Placement office in Building 800 next to the Student Lounge.

## Solution Series

Join President Bill Stacy in the Student Lounge on any or all of the "Solution Series" to discuss issues of importance to the university and to offer creative solutions to the challenges of building CSUSM. The dates include:

- Sept. 20 at 3 p.m.
- Oct. 10 at noon.
- Nov. 15 at 7 p.m.
- Nov. 18 at 10 a.m.

Coffee will be provided. For more information, call 742-4040.

## New yearbook out before November

Tukut, CSUSM's yearbook, will be completed the first week in November, if not before, according to Barbara Pender, yearbook editor.

Currently, the Tukut staff is looking for a few students to volunteer in creating the 1991-92 yearbook.

Pender said several volunteer positions are open: a Section Editor and two Photographic Managers. The Tukut staff is also seeking students to sell advertising space for the upcoming yearbook to work on a commission basis.

Those interested in applying for one of the positions, notify the Tukut staff, in writing, of experience, availability, and position preference. All Information can be submitted to the Student Affairs Office in Building 125.

## History club gets started

The History Club, one of CSUSM's first clubs, will be starting their membership drive the week of Sept. 9. There will be a sing-up table in the student lounge that week for student interested in local and national history. There is a \$5 fee for dues each semester.

## Library hours changed

As a result of the input received from Cal State San Marcos through a survey, the library has increased the number of hours it is open Mondays through Saturdays. The new hours are:

- Monday-Thursday: 8 a.m.-10 p.m.
- Friday: 8 a.m.-4:30 p.m.
- Saturday: 10 a.m.-6 p.m.

These extended hours are made possible by existing Library staff rearranging their schedules. Although 80 percent of the surveyed students wanted the Library open on Sunday, those hours will not be added until funding is received to cover the additional staff needed.

## International Festival dates set

The first CSUSM International Festival has been set for Oct. 27 in the campus parking are between Building 800 and 820. The all day event will be from 11 a.m. through 5 p.m.

The event is made possible by an endowment by Itoman and Company, Inc., a Japan-based firm.

## Got something planned?

Pioneer welcomes all information on campus clubs, organizations and meetings to be published in this Campus Calendar section. Information, including a contact person, can be sent through the campus mail and is subject to editing. Deadline for the next issue is Sept. 12.

## RESEARCH INDICATES ...

# Psychological stress increases cold risk

Welcome back and I hope you all had a healthy summer break. The lack of summer which I frequently bemoaned was probably beneficial to our skin, but definitely made it seem like summer never started. However, I hope it didn't interfere with your ability to get rejuvenated for another academic year.

Beginning a new academic year, I realize, can be very stressful with school, work and other adjustments which brings me to write about yet another effect of stress.

A recent study in *New England Journal of Medicine* supports the debatable contention that emotional health affects physical health. I for one think people all too frequently attribute physical health problems to stress but this study makes a very strong case. Specifically the study provides evidence that psychological stress is associated with an increased risk of acquiring the common cold.

With the consent of the participants, the researchers gave them nose drops with five of the 20 common cold viruses. They then monitored them for common symptoms. They also underwent extensive physical and psychological testing and questioning about health habits.

The end result was that people with high levels of psychological stress were twice as likely to develop colds and even with less severe stress there is still an increase in risk to



## HEALTHNOTES

BY DR. JOEL GRINOLDS

develop a cold. Other factors that increase susceptibility such as age, diet, smoking, exercise, etc. could not explain away that increased risk.

Nobody knows the precise mechanism by which stress changes one's defenses against infectious diseases but this study definitely supports the case that stress alters our immune response. How one can handle stress to stay healthy is not exactly known, but I will write about that in future columns.

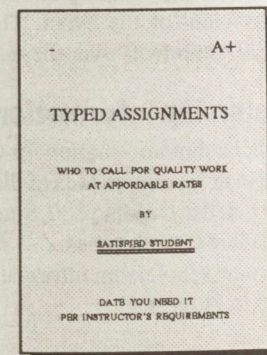
As you know at Health Services, we see students for many other reasons then stress related disorders. We are going to be available three days a week this semester and have new staff.

Lisa Estelle is now a mother of a healthy boy, Sean, and is being a full-time parent. Stop by Health Services to become acquainted with the new hours and new staff.

Dr. Joel Grinolds is chief physical for Cal State San Marcos.

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# Millman shares views on curriculum

LARRY BOISJOLIE/PIONEER

Richard Millman, was chosen in a nation-wide search to fill the position of Academic Vice President of Cal State San Marcos. Millman received his Ph.D. from Cornell University and his B.S. in Mathematics from MIT. He has authored three books on mathematics and has published over 35 articles on mathematical subjects.

As Academic Vice President, Millman is responsible for all academic planning and programs at the university.

**This year Cal State San Marcos saw the addition of two new majors. What's in store for the future?**

We will be offering a wide variety of majors ranging from the standard ones like Biology, Chemistry and English to some less standard ones, perhaps including things like Criminal Justice. We will explore the eventuality of Engineering.

We are a comprehensive university and will be in the year 2000, so we will cover all of the Bachelor's degrees and we will also have Master's degrees in those areas where it is justified by demand by local area businesses, by student demand and by intellectual demand.

**Any sign of when more Master's degree programs are to begin?**

Within the next five years. We anticipate having two Master's degrees programs very soon. One would be in Business and one would be in Education. The other ones would come on line within the next five years and they of course would be subject to Chancellor's Office approval. They would be in the sciences, Mathematics and Psychology, some in Social Sciences and English.

Last year some people were heartbroken that Computer Sciences was rejected as a major offering.

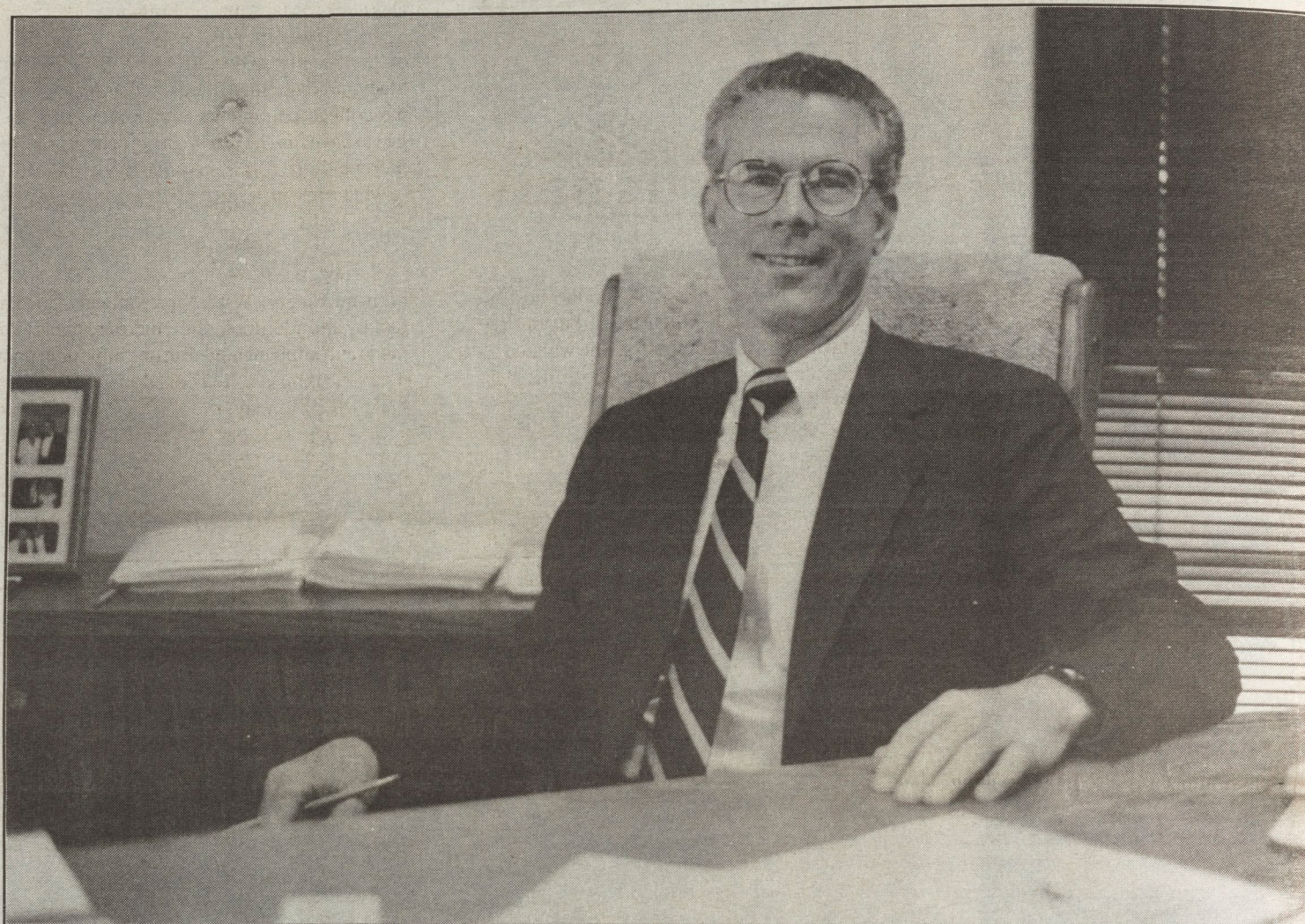
There is a concentration in the Mathematics option in Computer Science, so people wanting that kind of an education can still have it. It will be as good as a degree as if it were a separate B.S. in Computer Science.

We will go back, however, to the Chancellor's Office and review our request for a Bachelor's degree in Computer Science.

**Do students have any role in molding the curriculum?**

Absolutely. In fact, two students came to see me with a complaint. They wanted a Master's degree in Mathematics. Needless to say, since that's my home discipline, I was extremely sympathetic.

It's wonderful to get students making curricular suggestions. The more students let us know what they would like, the better we can assess what their needs are.



RICHARD MILLMAN/ACADEMIC VICE PRESIDENT



## QUESTION AND ANSWER

**As a person trained in Mathematics, how does the writing requirement sit with you?**

I love to write. I love to write about Mathematics primarily. My personal area of research these days is writing in Mathematics, which includes not only how to write in Mathematics but writing as a tool to learn Mathematics. I'd be happy to talk with you for about four hours on that. I've taught courses in it in that area.

I'm delighted that one of the things that attracted me to this place is exactly the 2,500-word writing requirement in every single course. There is no way to reinforce what you've learned in class better than to write about it. There is no way to learn new material you've learned better than to organize it in your head and write about it or explain it to somebody else.

**Do you think instructors should use**

**originality in exercising the requirement?**

There are lots of different ways to get students to write in class. One is to have free writing, where students can write whatever they're thinking about. Students can write by listening to the professor talk in the class then in the last ten minutes of class the professor says, 'tell me what I've just told you.' What the professor will learn from that is enormous. The professor will learn what the students have trouble with very spontaneously.

The alternative to that is to let the students go home and think about what they've just heard in class and for the next session write a paragraph or two explaining what they've just heard. That's another way of really learning the material in the class that both the students and the professor learn from.

The idea of writing a 10-page paper is also an excellent one. Sometimes ideas that have been around for a long time are excellent. Innovation is not synonymous with quality. When you get out in the real world, that's what you are going to be doing a lot, no matter what your discipline is.

The multi-draft format that professor have used, where the paper the student has done is given back with comments all over it and a note asking to redo it, is a very effective learning tool for the students.

**Each individual university has its own reputation for something. San Diego State**

**has its football team; MIT has engineering. How's CSUSM going to find its niche?**

We're going to find our niche by the strength of our faculty and the successes of our students. We have already achieved a niche in the quality of our undergraduate program by looking at the curriculum. We are in the process, of course, of operationalizing that.

I don't know of any university that requires 2,500 words for every course. The language requirement for all students; the incredible emphasis on internationalism both in the general education and in the major; the emphasis on diversity are all important for shaping the university.

**At this time do you think that CSUSM is meeting its Mission statement?**

Very much so. The Mission statement has guided us in every way through the curriculum; through recruitment; our faculty and our staff; and through the computer-literacy requirement which we are in the process of operationalizing.

**If the permanent campus doesn't open in the fall of 1992, how will the academic plan be affected?**

The affect of whether or not we will be able to move to the site will be on number of students we will have not on the majors we



# Boxer Rebellion brings out best of Richard Rush

Picture Dr. Richard Rush, the distinguished Executive Vice President here, in boxer shorts.

The image brings to mind those strange dreams you all have where you're going to school, work or shopping in your underwear. And there's nothing your dream body can do to dress itself. Strangely, however, Dr. Rush wasn't dreaming.

Over summer break, Cal State San Marcos' Executive Veep was strolling around campus in his undies (over a pair of pants of course), along with several other faculty and staff members strutting their boxers. These people had gone mad ... literally.

Boxer Rebellion Day was held July 12 to help balance the confusion and stress of moving, adding and shifting of university offices. The dress code included slacks and T-shirts to make employees more comfortable in the moving, but this day brought out everything from stared to stripped to flowered undies.



## CAMPUS BEAT

BY JONATHAN YOUNG

The first place award for the best pair of shorts went to Toni Brindisi, but my favorite outfit was Marcia Woolf's. She waltzed around in a cardboard box strapped on her waist by suspenders.

The office move was organized by Pat Farris and Ivallee Clark of Support Services; the "July Madness Month" was orchestrated by Judy Taylor of Personnel Services. Other events

throughout the month included Favorite T-shirt Day and the Madhatter Unbirthday Party Picnic.

In review of the previous year's performance of the faculty and staff here, President Bill Stacy, among other things, recommended that the college community create more activities just to have fun (he was wearing pants during his presentation). If this summer is any indication of what's ahead, he doesn't have to worry much.

In Stacy's address to the faculty, he focused on the upcoming events and plans for this newly born university. With approximately 50 new faculty and additional staff, there are plans to be made and implemented. But one important point everyone is missing happened a few years back: CSUSM's birthday.

Last Saturday, on Sept. 1, CSUSM turned 2-years-old. On that date in 1989, then-California Governor George Deukmejian and Senator Bill Craven signed SB 365 into law, thus giving life

to this new community.

The bill, signed here on campus, gave the university its name and established it as the twentieth CSU school in the state.

Happy Birthday CSUSM. Watch out world, we're into the terrible twos.

Among her many duties as campus receptionist and secretary to the university itself, Barbara Davis gets excited each time she puts together The Digest. This monthly campus newsletter now has a new look.

Barbara has spent parts of her summer designing, redesigning and perfecting the new format of The Digest. The front page mast is now bold yet distinguished, and the design is easy to read. Good job Barbara.

The September issue should be out this week but if you can find a copy of last months, there's a picture of Dr. Rush in his boxers of the front page.

## CAMPUS

CONTINUED FROM PAGE A3

Amado said construction on the physical plant is also moving along well. The physical plant facility is expected to be completed in November. In 60-90 days after the building's completion, group and equipment move-in can begin.

While construction continues at the campus site, the City of San Marcos is working on a project of its own. A six-lane roadway between the new college's main entrance and the freeway is now under construction. Amado said he anticipates the construction to continue until 1993.

Storm drains and an underground 69 kv powerline will run beneath the road that will be a major artery for the city's Heart of the City project.

The Heart of the City project consists of 1,600 acres of land including the university that will be completely controlled in terms of architecture and landscape. The project will be designed around CSUSM's Mediterranean style to give the feel of a university village.

Amado said the campus construction project is bound to run into some snags, but that he is trying to minimize problems as they arise.

"We're reacting as quickly as possible to contractor questions," he said. "By the time we roll around to the rainy period, we should be completely out of the ground."

If construction continues past the fall 1992 scheduled opening date, Amado said the decision of when to move on to the site will come from



JONATHAN YOUNG/PIONEER

A construction worker traverses steel beams on the permanent campus' lab building.

CSUSM President Bill Stacy.

In the meantime, the university is moving forward in seeking funding in Sacramento for Phase II. The phase will service 5,000 students.

Amado said the second phase has already been delayed by at least one

year due to the failure of Proposition 143 on last November's ballot.

The Proposition would have added \$10 million in revenues to CSUSM that would have been used for furniture and the acquisition of books for the library's core collection.

## Campus History

Highlights of construction on Cal State San Marcos' permanent campus site on Twin Oaks Valley Road:

### 1990

■ **Feb. 23:** Cal State San Marcos President Bill Stacy, along with the university's founding faculty, held the groundbreaking ceremonies at the permanent site, starting Phase I.

■ **Aug. 26:** CSUSM welcomed its first students.

■ **November:** It is reported that construction costs for Phase I jumped 20 percent due to unexpected amounts of rocks and DDT on the campus site. Construction on the site set the construction schedule two months behind.

■ **Nov. 27:** Bids were accepted for Craven Hall, the first feature building on the campus. Bodell Construction from Salt Lake City, Utah, won the bids at \$14,325,000, \$1.4 million under budget. The highest of the 11 bidders still came \$200,000 under the \$15.8 million budgeted for the building. The bidding set a president for future projects.

■ **October:** Construction on the campus grounded to a halt due to contractual dispute between General Contractor Louetto Construction and grading subcontractor C.W.Poss. Poss officials claim that Louetto was delinquent in paying them \$1.3 million for work already completed at the site.

■ **November:** The university terminated Louetto from its contractual responsibilities due to the contractor dispute. Lusardi Construction, a San Marcos-based company, was awarded the interim contract to replace Louetto.

### 1991

■ **Feb. 6:** Stacy guided Senator Gary Hart on a tour of the campus to explain budget problems with future phases of construction. Although Phase I was already budgeted and paid for, funds for other phases was to come from the failed Proposition 143.

■ **March 4:** Construction began on Craven Hall.

■ **March 5:** Construction began on the Academic Core.

■ **March:** Although some considered the rain the "March Miracle," the excess water caused problem with construction on campus. Weather delays were scheduled in, but all buffer time had been used with the previous year's contractual disputes.

SOURCE: Pioneer records



# TROUBLES WITH TRASH

## Board of Supervisers axes incinerator while trash piles up in local landfill

Last month, the county Board of Supervisors dumped San Marcos' plans for a \$325 million trash-to-energy incinerator. With the demise of the trash plant, North County is scrambling to find a resting home for its refuse.

The county landfill currently spans 73 acres in the city of San Marcos and rises 750 feet. Plans to expand the landfill to 209 acres were voted on by the San Marcos City Council on July 14, but without their trash-to-energy plant, San Marcos may revoke the decision.

San Marcos Mayor Lee Thibadeau says the landfill expansion was contingent upon the passing of the incinerator. For now, North County cities will continue to dump at the landfill. But even if the landfill expansion is approved again by the City Council, San Marcos could possibly revoke land-use permits for cities other than San Marcos.

"I'm going to protect my city," cites Thibadeau.

Since the landfill is expected to reach capacity by the end of the year, all of North County's cities will be left without a local place to dump their refuse, unless the city expands the existing site.

Thibadeau says that if San Marcos approves the expansion plan, he wants to limit the landfill's use to his city and adjacent unincorporated areas only.

Although the County owns the land, they cannot run the landfill without special permits from the city of San Marcos.

"The only way they can legally expand the landfill is if we allow a permit," Thibadeau says. "We might not do that."

However, Escondido Mayor Jerry Harmon says San Marcos has no legal right to deny use of the landfill to anyone.

"I think legally they (San Marcos) are not in the position to do that," Harmon says. "San Marcos does not have legal authority to operate the landfill."

Thibadeau claims that with the right permit, the county can still operate the landfill just for San Marcos. "The county doesn't have to take

care of every city's trash."

Thibadeau and a majority of the San Marcos City Council have officially shown support for the trash-to-energy plant since 1985.

### Trash plant history laced with controversy

The incinerator saga began in 1981 when the county signed an agreement with Herzog Contracting Corp. to operate the San Marcos landfill and have exclusive rights to develop a trash-to-energy plant at the site.

Since that time rights went to North County Resource Recovery Associates, a jointly owned subsidiary of Thermo Electron Corporation and SCA Services. In 1984, Thermo Electron lost SCA Services as a partner and worked with three other partners until 1990.

Opposition to the incinerator began in 1984, when North County Concerned Citizens (NCCC), filed the first of more than a dozen lawsuits challenging the trash plant. The group, consisting mostly of residents in the Elfin Forest area of San Marcos, was concerned over environmental impacts of the plant.

Citizens for Healthful Air in San Marcos (CHASM) joined the NCCC in opposition to the project. In 1985 CHASM garnered enough signatures to put the issue before the voters in April of that year. The petition was later thrown out by a Vista Superior Court judge.

The issue was finally brought to the voters in September of 1987 by the City Council. The approval to build the incinerator was granted by a narrow margin of 229 votes.

After the vote, Carlsbad, Escondido and Encinitas filed a suit to block the trash plant's construction. The cities cited economical and environmental reasons. In 1988, the three cities filed another suit challenging the trash plant; five additional suits were filed by other parties in the same year.

### Thibadeau says plant is safe.

According to Thibadeau, the incinerator

SEE TRASH/PAGE A9



STORY BY

JONATHAN YOUNG & LARRY BOISJOLIE



# TRASH

CONTINUED FROM PAGE A9

would have fallen within state air pollution control guidelines.

"There's no environmental issues for the incinerator, it's economical," says Thibadeau.

Paul Connett, a chemistry professor at St. Lawrence University in Canton, N.Y., and an expert in trash-to-energy plants, says that incinerators do pose significant environmental problems as well as environmental ones. Connett was brought to the area by the NCCC to help fight the project.

"Not only will this thing be a financial nightmare for the citizens of this community for the next 20 years, but the current environmental dangers of this incinerator are not being addressed," he says.

Connett says trash incinerators release high levels of dioxins and mercury into the skies. One-third of a gram of mercury can contaminate a lake the size of Lake San Marcos. Connett says incinerators usually pump out 250,000 grams of the substance per year.

## Economical feasibility doubted

Even though disputes rage over the environmental impact of a trash-to-energy plant, another argument is ensuing over its economical feasibility.

"I'm opposed to the incinerator primarily because it's not the best economical solution," says Harmon. "There's cheaper, less expensive ways to handle the trash problem."

He says the rising cost of the trash plant

"I'm opposed to the incinerator primarily because it's not the best economical solution. There's cheaper, less expensive ways to handle the trash problem."

## JERRY HARMON, ESCONDIDO MAYOR

would be absorbed by the taxpayers and not Thermo Electron.

Connett says existing trash plants are economical nightmares for taxpayers. He cites a case in Warren County, N.J., where resident were promised a \$37 per ton tipping fee but ended up paying \$98 per ton.

Cost for the proposed trash plant already has risen from an originally estimated \$100 million to \$325 million.

"This is the most economical way to solve the problem," Thibadeau says about trash plant.

He says that a potential landfill site off of Twin Oaks Valley Road just north of Deer Springs Road would cost taxpayers more money per year than the trash-to-energy plant.

The 550-acre proposed landfill site would cost \$200 million and be operational for 16 years, whereas the incinerator, costing \$125 million more, would be open for 30 years. In addition, the incinerator would produce 303 million watts per hour per year of electricity.

## SDG&E opts to dissolve contract

In 1983, San Diego Gas and Electric signed an agreement to buy power produced at the trash plant.

# TRASH

Citing that the agreement would force the utility to pay \$46 million more than it would to buy power from other sources, SDG&E filed a request to dissolve the contract.

Thermo Electron says that the ensuing rate hike for electricity consumers in San Diego County would amount to only \$1 to \$2 annually per household.

If the contract is dissolved, the county would have to pay even more money to build the plant.

Another concern facing the county's Supervisors was whether North County cities would try to starve the incinerator by not bringing their garbage to San Marcos.

At the time of last month's vote, eight North County cities indicated they would not use the trash-to-energy facility because they oppose the incinerator idea.

In order for the proposed incinerator to operate, it requires 625,000 tons of trash per year. The county would have been required to provide the necessary amount of trash or pay a penalty fee to Thermo Electron.

## Trash transfer centers planned

In addition to the trash-to-energy plant, a trash transfer center was planned also at the site.

"There's no environmental issues for the incinerator, it's economical. This is the most economical way to solve the problem."

## LEE THIBADEAU, SAN MARCOS MAYOR

The transfer center would separate recyclable garbage from non recyclable trash before the incineration process. Recyclables would then be sent to recycling centers.

The county wants seven of the transfer centers to be built throughout the area. Four cities, Escondido, Carlsbad, San Marcos and Vista have already said they will accept transfer centers if they are proven to be economically feasible.

The city of Vista has reviewed the proposal but have already come across opposition from residents.

"Anything you want to do is with a lot of opposition," says Bernie Rappaport, Vista City Council member. Rappaport said that once the centers are in place they will not be noticed.

"Once they get it put in, no one notices it's there. It's just the thought that causes all the havoc," he says.

An article in *National Geographic* cites that as much as 67 percent of all solid waste in landfills is recyclable. Unfortunately, there is little current market for recycled products. Surpluses of recycled paper, for instance are overflowing.

"There is no market for recyclables," says Thibadeau. "The curbside material ends up in

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From a friendly snake for sale to a friendly hello from Fred, there's something for everyone in Pioneer's new Classified section.

The addition to the newspaper's format gives a unique students and business a unique opportunity to reach a specialized market: the college community. Pioneer is read on six North County campuses and is the only publication that has an inter-collegiate circulation.

# CLAS\$IFIED • PAGE B15

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# DEANS' HONOR LIST

Victor Rocha, Dean of the College of Arts and Sciences, and Bernard Hinton, Dean of the College of Business, are pleased to announce that the following undergraduate students received Deans' Honors for their outstanding academic performance in Spring 1991.

The award of Deans' Honors will be noted on each recipient's transcript and a certificate of achievement presented at the end of the current academic year.

In order to be eligible for the Deans' Honors list, each student must complete 12 or more graded units with a term grade point average of 3.50 or better.

Our special congratulations are extended to each recipient of this award.

## COLLEGE OF ARTS AND SCIENCES

Altevers, Barbara Leila	Liberal Studies	Vista	Lietz, Manfred	History	Fallbrook
Bartlett, Jennifer Lynn	Psychology	San Marcos	Mahoney, Diana Marie	Psychology	Fallbrook
Boisjolie, Lawrence Arthur	English	Escondido	Morgan, Pamela Jan	Psychology	Escondido
Bourland, Heather Jean	English	Oceanside	Ohre, Crystal Lyn	Psychology	Oceanside
Broach, Stephen James	Biology	Carlsbad	Parham, Diane Elizabeth	Liberal Studies	Oceanside
Brown, Tanis	Liberal Studies	San Marcos	Parmaley, Rose J.	Psychology	Ramona
Chapman, Jose Antonio	History	San Marcos	Price, Barbara Jean	English	San Diego
Chovich, Cynthia Marie	Liberal Studies	Escondido	Quetsch, John Karl	Liberal Studies	Oceanside
Clark, Robyn Lori	Psychology	Carlsbad	Robinson, Neva Kelly	Social Science	San Diego
Coad, Lora L.	Liberal Studies	Escondido	Rogers, Kathryn Gail	Psychology	Vista
Curtis, Floyd Maurice	History	Carlsbad	Sansom, Elizabeth Gailey	English	Vista
Druliner, Shraddha Pk	Liberal Studies	Santa Ysabel	Scanlon, Charis	English	Vista
Duffy, Deborah Lynn	English	Oceanside	Scheller, Ricardo Anthony	History	Fallbrook
Freathy, Gregory Allen	Social Science	San Diego	Smith, Sami	English	Escondido
Glassford, Maria G.	Liberal Studies	Carlsbad	Spedale, Alice Mae	Psychology	Poway
Hernandez, Deanne Lynn	Sociology	Del Mar	Stone, Tammie Lynn	Biology	Encinitas
Hill, Wendy Kay	Psychology	Carlsbad	Sullivan, Mary Katherine	English	Valley Center
Hinkle, Sharon Clela	Sociology	Valley Center	Vanhandel, Maria V.	Social Science	Vista
Hoffman, Lori A.	Liberal Studies	Vista	Wettlaufer, Mark James	History	Idyllwild
Johnson, Lorraine Ann	Liberal Studies	Wildomar	Whaley, Elaine Harrison	English	Valley Center
Keehn, Robin Sue	English	Leucadia	Wilson, Kathleen Susan	History	Vista
Knowlton, Jon-Paul	Psychology	Vista	Wood, Lea Marie	Sociology	Encinitas
Langley, Robin Adair	Liberal Studies	Vista	Yates, Kelly Ann	Liberal Studies	Escondido
Leaverton, Sheri Mae	Psychology	Oceanside			

## COLLEGE OF BUSINESS ADMINISTRATION

Brown, Teresa Dawn	Pre-Business	Oceanside	Jaggard, Joseph Franklin Jr.	Pre-Business	Poway
Charmoli, Charmaine Dawn	Pre-Business	San Diego	Madsen, Susan	Pre-Business	Carlsbad
Gray, Vincent John	Pre-Business	Vista			



# DEANS' RECOGNITION

Victor Rocha, Dean of the College of Arts and Sciences, and Bernard Hinton, Dean of the College of Business, are pleased to announce that the following undergraduate students received Deans' Recognition in the 1990-91 Academic Year.

Deans' Recognition is awarded annually to those students who achieved a 3.50 grade point average or better while enrolling in fewer than 12 units each term.

Our special congratulations are extended to each student for his/her achievement.

## COLLEGE OF ARTS AND SCIENCES

Barker, L. Bree  
Bose, Julie Anne  
Brouwer, Jeff  
Brown, Judith Eileen  
Chalfant, Maria Teresa  
Flores, Jonathan Andrew  
Fortain, Andre  
Gorman, Jeanne Denise  
Griffin, Neal Coggins  
Hinchliff, Constance Gaye  
Humphrey, Ellen Sue  
John, Regina E.  
Kanawi, Beverly Kay  
Kimpton, Sandra Lawler  
Kunz, Abigail Bergman  
Leopard, Patricia Palma  
Martinez, Beth Ann  
Oliver, Lisa Marie  
Phillips, Elke B.  
Radspinner, Anne M.  
Roberts, Diane Jean  
Rolls, Charlene Ann  
Stawiski, Rebecca Louise  
Tanko, Colleen Rae  
Wahl, Sharen  
Walker, Susan Lee

Social Science  
History  
Mathematics  
Liberal Studies  
Liberal Studies  
Mathematics  
Liberal Studies  
English  
Social Science  
Liberal Studies  
Liberal Studies  
English  
Liberal Studies  
History  
History  
Sociology  
Undeclared  
Liberal Studies  
Psychology  
English  
Liberal Studies  
Liberal Studies  
Liberal Studies  
Liberal Studies  
Liberal Studies  
Sociology

Oceanside  
Oceanside  
Escondido  
Valley Center  
Escondido  
Escondido  
San Marcos  
Escondido  
Escondido  
Escondido  
Pauma Valley  
Vista  
Oceanside  
Carlsbad  
Palomar Mtn.  
Cardiff  
Escondido  
Carlsbad  
Vista  
Escondido  
Oceanside  
Poway  
Poway  
San Marcos  
Escondido  
Escondido

## COLLEGE OF BUSINESS ADMINISTRATION

Canfield, Joy Ann  
Hill, Debra Sue  
Lasley, Ellen A.  
Murphy, James Thomas  
Murphy, Maureen  
Smith, Cathleen Marie  
Tipton, Catherine Andrea

Pre-Business  
Pre-Business  
Pre-Business  
Pre-Business  
Pre-Business  
Pre-Business  
Pre-Business

Escondido  
Vista  
San Juan Capistrano  
San Diego  
Leucadia  
Carlsbad  
Vista



# WONE & YOUR BUSINESS



## MOVE

CONTINUED FROM PAGE A3

mixed the year before." Clark said there are still a few Arts and Science faculty members not gathered with their other College colleagues.

With two Colleges staying in Building 125, one College moved. "College of Education moved to Building 135," Clark said.

The Library, Computer Labs, and the Center for the Study of Books in Spanish for Children and Adolescents remain in Building 135.

Along with the College of Education, the Associated Students moved into Building 135 where the Writing Center was last semester.

With the Writing Center moved to a smaller space in the Library, Dr. Ken Mendoza, professor in the English Department, expressed concerns over the loss of the old location. Mendoza said the Writing Center serviced over 300 students last semester. He said he was concerned over whether the smaller space can accommodate so many students.

"It is unfortunate that we lost such a valuable multipurpose teaching facility," Mendoza said.

Mendoza recognized the importance of student government and the need to have its office located in an accessible place on campus, but said he will be forced to seek a larger space that will accommodate more students.

In addition to finding a room for the student government, the Student Affairs Office and the A.S. made it possible for other student groups to get offices.

"All student organizations have offices now," Clark said. Besides the new A.S. office, Tukut, the campus yearbook, and Pioneer have offices,

## Who went where

Who	Was	Now
■ Financial Aid	Building 125	Building 800 (Next to Admissions)
■ College of Education	Various Offices	Building 135 (next to the Library)
■ College of Business	Various Offices	Building 125 (Next to the Mailroom)
■ College of Arts & Sciences	Various Offices	Building 125 (East End)
■ Science	Various Offices	Off-Campus

### Expanded Offices

- Building 800: Admissions & Records, Career Planning, School Relations.
- Building 125: Student Services

### New Offices

- Building 145: Procurement, Pioneer, Tukut
- Building 135: Associated Students
- Building 800: President-Emeritus

located in Building 145.

With SDSU vacating Building 800, CSUSM expanded several departments there.

"We had to do some remodeling for more personnel in Admissions and Records," Clark said. "We now have space for Career Planning and Placement and School Relations."

The Bookstore, Health Services and the Student Lounge stayed in Building 800.

One group, however, did get moved off campus. Due to the lease specifications and other city codes, the science department moved into a new laboratory facility on San Marcos Boulevard.

"The science complex has five faculty offices, two classrooms, a major instructional lab and a prep room," Farris said.

"I love it," said Larry Cohen, founding faculty in biology. "The identity of a scientist is tied to a lab. This gives us a home where we feel like faculty."

Cohen doesn't foresee any difficulty in students commuting between

the two campuses. "Even if you don't have a vehicle, you can get there in half a hour by walking," he said. "It'll be interesting to see if people get into exercise (by walking there)."

According to Farris, half of the off-site campus is used as a warehouse for the entire university.

Besides the two classrooms in the lab facility, on-campus classrooms are in Building 145 and Building 800.

"Our goal was to have everything in place and settled in by the time classes started," Clark said. "...and there's a lot to get ready just in the classrooms." She said everything from desks to batteries in the clocks had to be arranged for the 17 classrooms.

To assist with morale on campus during the move, July was proclaimed Moving Madness Month. Dress codes included T-shirts and jeans and several theme days were planned.

"It was good for everyone," Clark said. "It made people relaxed with everything that was going on."

"Everyone was very good about the move. We appreciate that because it was a very big ordeal."

## GROWTH

CONTINUED FROM PAGE A2

President of Student Services Ernest Zomalt, in an interview held last year. "Many women are trying to complete degrees that might have been halted by marriage and family."

Even though the female population is booming, minorities still comprise a relatively low percentage of the population. The African American population remains low with only 18 students enrolled while the American Indian population remains at less than 1 percent with eight students enrolled.

Although the Hispanic population increased in numbers to 89 and the Asian American population rose to 47, the percentage of total students is far below the university's goal.

Yee says the college has retained an affirmative action coordinator in an effort to recruit more minority students to CSUSM.

A comparison of CSUSM's faculty with university faculties across the CSU system and the nation, however,

tells a different story. The percentage of minority and gender representation among the CSUSM faculty is higher in all groupings than both system-wide and nation-wide comparisons.

With a 12.96 percent Asian American population, for instance, CSUSM is over four points above the CSU average and almost nine points above the nation-wide figures.

Richard Millman, CSUSM's academic vice president, says the faculty demographics reflect the college's mission for global awareness.

With San Diego State University all but closing its North County campus' doors and the axing of over 500 classes from the main campus, CSUSM officials expected an onslaught of SDSU students. The number of SDSU students that transferred to CSUSM reached only 65 this semester - far below the expected transfer rate.

The number reflects only a 16.3 percent increase of SDSU transfer students. Yee speculates that many students at the southern-most campus would rather try to crash classes than commute.

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Brenda Brubaker

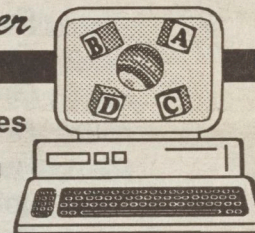
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## Q&amp;A

CONTINUED FROM PAGE A6

will have.

The number of majors being offered is not necessarily contingent on the number of students then?

No it's not. What it is contingent on is space. A Master's program in one of the sciences requires a lot of space because the experimental nature of the work. History requires archives, and so on... but none of those will be affected by whether we start in the fall of '92 or the spring of '93.

How has the pace been here compared to where you are from?

The pace is very nice. Because it's so exciting and because we're forging new roads and trying to think of new ways to do things, we're all excited to do it.

Is there any academic plans that you personally would like to see in the future here? What do you look forward to ten years down the line?

In faculty orientation I said the thing I don't want to happen is the way Joseph Conrad's *Lord Jim* ends, which is 'what a chance missed.'

There is no end for us, there are only beginnings, so we can't look at the end of the novel. At the end of



'I'd like to see us as having taken some risks ... I'd like us to get in the mind-set where we're willing to take risks and when we achieve, we achieve greatly and when we don't achieve we learned something.'

## RICHARD MILLMAN/ACADEMIC VICE PRESIDENT

every chapter and the end of every section what I would like to see is for us to look back and say, 'what an opportunity seized.'

I'd like to see us as having taken some risks. Some of Hitchcock's films don't work because, as film critic Francois Truffaut said, he took risks that were 'noble failures.' I'd like us to get in the mind-set where we're willing to take risks and when we achieve, we achieve greatly and when we don't achieve we learned something. Still, we should reward the noble failure.

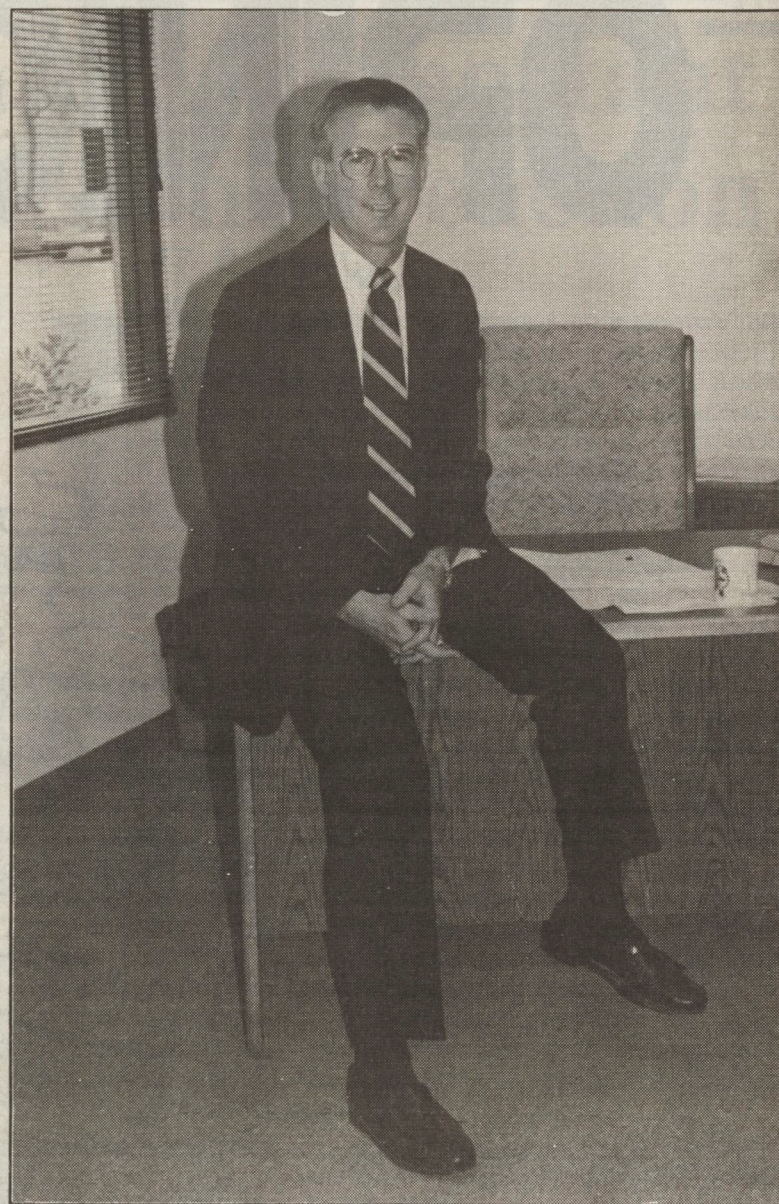
Is there anything you'd like to add?

There are three more specific things I'd like to accomplish. One is to get an honors program. We have good students. We should not only acknowledge them with honors, but

with a notion of honors in Psychology, honors in Art, honors in Music and so on. The faculty will be working on that in the next year or two.

We need to get unconditional accreditation. We'll be doing that in the spring of 1993. We have accreditation right now, but since we are so new we couldn't even apply for unconditional accreditation.

We have some very exciting opportunities in international education. We have a faculty committee looking at that. I would like to see some students join some of these committees at work through the Associated Students. I hope students will take advantage of some of the international opportunities in store for them.



RICHARD MILLMAN/ACADEMIC VICE PRESIDENT

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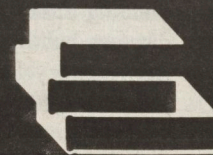
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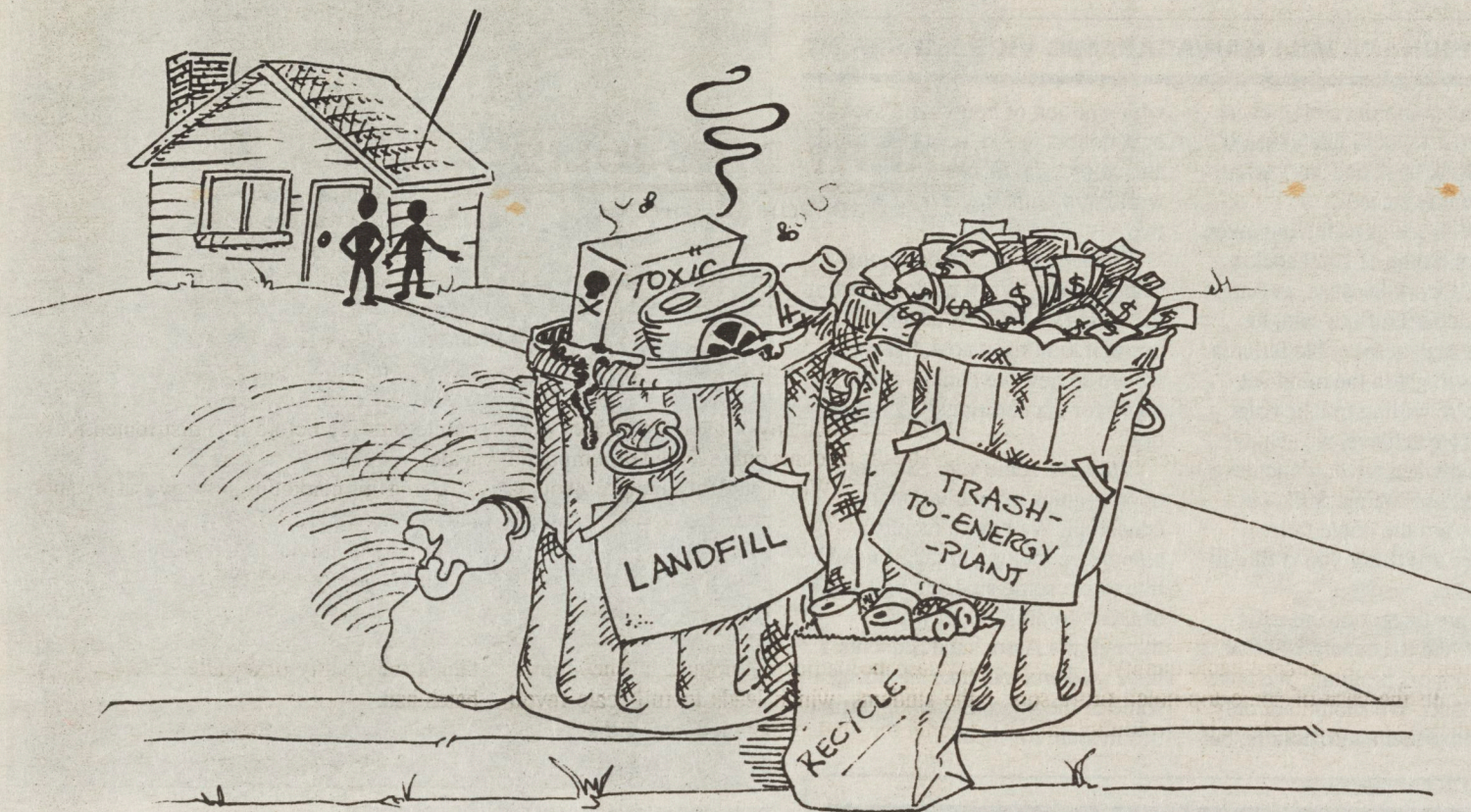


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# OPINION

WHEN'S THE  
TRASH MAN  
GONNA COME?



## Board should approve trash centers

Unless the San Marcos incinerator plant rises from the ashes like the legendary Phoenix, something else possibly might. Upon approval by the San Marcos City Council, a 200-foot mountain of trash will grow from an already 750-foot tall landfill near Elfin Forest.

The garbage pile, known as Mount Trashmore by nearby residents, will expand horizontally 230 acres, possibly crippling businesses and blocking the ocean views of those living in the area.

County officials are concerned that the landfill might contaminate ground water, thus endangering wildlife and public health.

It is a misconception held by many that biodegradables in landfills eventually break down. Without direct sunlight, even the most easily degradable substances remain intact. An article in National Geographic was accompanied by pictures of a 17-year-old hot dog and a readable newspaper dating back to the 1973.

This is not to say that an incinerator is such a grand idea either. According to Dr. Paul Connett in a recent interview with the *San Marcos Courier*, incinerator plants cause both environmental and financial nightmares.

Connett, a chemistry professor at St. Lawrence University in Canton, N.Y., says trash-to-energy plants release high levels of dioxins and mercury into the atmosphere. Financially, Connett cites that the \$325 million plant would



### OUR VIEWS

STAFF EDITORIAL

cost taxpayers bundles for at least 20 years.

No matter which way you look at the dilemma, San Marcos and North County have a definite trash problem.

Obviously, the best way to solve the trash volume problem is through recycling. Unfortunately, some people are too lazy or inconsiderate to separate recyclables from nonrecyclables. This is evident by the empty curbside recycling stations throughout the county and the short lines at larger recycling centers.

A solution to the problem comes from building trash transfer centers. At these clean, discreet buildings, recyclables are separated from nonrecyclables. Plants could be located in areas not disturbed by parades of trash trucks.

Small recycling centers could buy the recyclables from the transfer centers, thereby boosting their businesses and providing taxpayers with revenue to help fund the centers.

County businesses should be required to use recycled paper whenever possible to curtail the present surplus of recycled paper.

The remaining refuse would then be shipped off to a landfill project. The volume of trash shipped off to landfills could be reduced by as much as two-thirds.

Currently, the County Board of Supervisors is seeking sites for six plants in North County, but just looking doesn't offer remedies. Each North County city must be required to have a minimum of one trash transfer center.

For 10 years the Board of Supervisors has been dragging its constituencies through the garbage muck and have dredged up no solutions. Promises made to local residents that the San Marcos landfill would stop growing by July have already been buried. The dump continues to grow, with the landfill reaching capacity by the year's end.

There is a distinct possibility that the San Marcos City Council will reject the proposal to expand the landfill, due to scorched egos still hot from the destroyed trash plant plans. If such a scenario arises, residents near Elfin Forest will be spared their views and property devaluations.

Unfortunately the trash must find a resting place somewhere. Unless the County gets tough on recycling, then all of us can expect a range of trashy mountains to spring up while we are still alive to regret it.

STUDENTS WELCOMED ...

## Stacy urges campus-wide participation

Thanks for allowing me to write a few words in the first issue of the *Pioneer* in this, its second year of pioneering the student voice of CSUSM. Welcome to CSUSM. It really "belongs" to several constituencies of owners, especially students.

This is the best time of year for me when the parking lot is full, the bookstore is lively with students buying books, and the classrooms are filled. Students are the reason for "being" CSUSM. This year there are nearly twice as many of you as in our first year. Next year there will be nearly three times as many as crowd our business park campus this year. But we are still in the early founding years of the university, and we are all pioneers who will create the voice and feel and culture of what it means to be a CSUSM student.

The Associated Students organization is now in place with Jose Chapman at the helm as President. This simple sentence reflects an enormous amount of work and commitment from the student body of the first year. We are all proud of your student colleagues for building a student government from scratch, and I would urge you to continue to build and to strengthen this organization that represents your voice.

This year, we will begin a "Solutions Series" to ask for the assistance of the university community in finding creative solutions to issues of importance to us and to discuss how CSUSM will be unique among our 19 sister institutions. Where should we be going in our plans for additional majors and graduate programs? What are the issues pertinent to the success of our Mission?

With class and work schedules competing for everybody's time, I know it's difficult to ask consideration of yet another meeting, but I hope you will find time to visit with me in the Student Lounge on one of these four dates: Friday, Sept. 20 at 3 p.m., Thursday, Oct. 10 at noon, Tuesday, Nov. 5 at 7 p.m. or Monday, Nov. 18, at 10 a.m.

This is a long way of saying "Welcome!" We're glad you're here, joining the partnership that is building California State University, San Marcos.

**BILL STACY/CSUSM PRESIDENT**





# PIONEER

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## A THOUGHT:

"He that lies with dogs, rises with fleas."

GEORGE HERBERT

# Student evaluations important for gauging consumer reaction

At the end of last semester I heard tell of something that has caused my spleen to fester the entire summer. It's not that I know what a spleen does or where it is exactly, but I am sure that it is an internal organ that has something to do with blood.

It was at that period of the school year when evaluations were passed out in classes and students were awarded the opportunity to gauge the instructional abilities of their professors that my ailment began.

Upon hearing that evaluations from the previous semester were virtually ignored by the administration, a group of students approached a dean to inquire about the reasons for the snub.

Among other things, the dean replied that, in some cases, first-semester evaluations amounted to little more than a popularity contest and that students may have been coerced into writing positive evaluations by instructors eager to return.

The dean also stated (and correctly so) that the university was not obligated to use the evaluations for personnel rehiring. It was also stated by the Academic Senate that the evaluations were not of acceptable quality.

In the case of some top-notch professors, there was no effort made by the administrative powers-that-be to discover how competent their classroom performances were.



LARRY BOISJOLIE

EDITOR-IN-CHIEF

As a result, several fine instructors were dismissed without even the courtesy of an administrative "good-bye." In many cases their resumes were not even reviewed in consideration of rehire.

The fact that many of those instructors were liked by the students only seemed to compound the problem. When students inquire about a former instructor, a strange kind of logic must form in administrative minds.

—Students like the professor, therefore he/she is popular, meaning he/she is too easy, which implies that students want a free ride, and because the instructor is popular he/she controls the students, which leads to full scale revolt among the student population and that equals trouble—

How else can a dean who did not read evalua-

tions contend that some instructors were little more than participants in a popularity contest?

Obviously the mean age of students attending campus the first semester was not considered. With an average population of 30-year-olds, CSUSM students had little interest in juvenile popularity contests or instructional coercion.

We learned respectfully by our first mentors and were challenged to perform far beyond our own expectations. If glowing evaluations were submitted, it was due to our newly found recognition of our abilities.

Sure, the administration had no obligation to retain those instructors, but we consumers of a new educational product feel that our evaluations of that product should be considered. A new flavor of Doritos, for instance, undergoes intense public scrutiny before it is distributed nationwide.

Using this marketing strategy as a metaphor, let's hope that the infant Associated Students becomes a consumer group that communicates our need for buyer feedback.

In all fairness, most of the newer faculty members that replaced the older ones have retained the quality of excellence that the first batch had.

I hope that, in consideration of our spleens, our opinions can at least be considered on their performances.

# A.S. President encourages participation

On behalf of the A.S. and A.S. Council, I extend a hearty hello to this fall's crop of CSUSM students. For those of you returning, I welcome you all back from your brief respite.

This year promises to be one of transition, to say the least. As it goes with new organizations, and the university is no exception, there will be growing pains at all levels. We the students will not be immune to the difficulties associated with such a process.

For many of us, being here at CSUSM during its infancy can be both an exciting time as well as a time of considerable apprehension. As a result, I wish to instill in all of you to be prepared for the unexpected. You will be part and parcel to the changes that our university will experience. But, you have, through your vigilance and campus involvement, the ability to assist in the developmental process of this university and to deal with the unexpected.

What do I mean by assisting in the developmental process? Well, one specific thought comes to mind, student government involvement. The A.S. is the representative student organization on campus. Without the sponsorship of the A.S., no campus clubs will be officially recognized, nor can any student-sponsored campus events take place.

In addition to the A.S., involvement in the Pioneer and the Yearbook are two noteworthy leadership organizations. The Pioneer provides



## YOUR VIEWS

PUBLIC FORUM

the student body with an ideal barometer for gauging student/faculty/administration/community relations. The Yearbook provides the campus with a visual documentary of the campus' evolution.

These three, along with the various newly evolving campus clubs, can (and I expect will) be instrumental in the potential present and future student development of this university.

The descriptions of the aforementioned organizations only represent an implied capacity to initiate change. Student commitment and involvement is the necessary ingredient for these organizations to initiate change. On our campus, change can be a quite challenging endeavor, but nonetheless a surmountable one. Initiating change is a task that the A.S. too has found to be quite challenging.

As some of you may be aware, our first A.S. elections were held last April. The student body

adopted its Constitution and Articles of Incorporation. The student body also voted in its first A.S. Council. Twelve members representing the three colleges and the at-large positions took the first step into the unknown.

The Council wasted no time in getting down to business. It met over the summer and has accomplished quite a few tasks. The A.S. is now in the process of incorporating. Bylaws are being drafted. Fund-raising activities are being actively pursued. The Council is also seeking donations of equipment. Liability insurance is in the negotiating process.

The A.S. was approached by the International Festival Committee to assist in its Oct. 27 festival. As a result, the Council established its own International Festival committee.

The more students we have involved in the development of our university, the greater the likelihood of students' achieving their objectives, be they academic or otherwise. The ball's in your court. What you do with it is up to you.

The present and future character of CSUSM will be shaped in large part by the contributions and commitments, or lack thereof, of you the students. Make the most of your stay here! I wish you the best in your academic careers here at CSUSM.

JOSE CHAPMAN/

ASSOCIATED STUDENTS PRESIDENT



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## EXPLORE



# Dinamation brings life to dinosaur theories

LARRY BOISJOLIE/PIONEER

It's a beautiful spring day in Escondido and employees at the San Diego Wild Animal Park talk excitedly about the arrival of their newest guest.

He is being flown into the park by helicopter after being transported by truck from far away Orange County and officials hope that thousands of curious tourists will flock to the wild-

life sanctuary over the summer to see him.

His name is Big Rex and millions of years ago his arrival would have struck terror in the hearts of all living animals. Few would have been eager to greet his toothy visage.

Finally Big Rex arrives, but due to his immense size, he isn't sitting next to the whirly-bird's pilot, rather he dangles below the helicopter by steel cables.

Big Rex is a dinosaur ... or at least the closest thing to it.

The 30-foot high, 6,000-lb. Tyrannosaurus rex, a robotic life-sized model of the planet's most popular prehistoric predator, is the crowning achievement for Dinamation International Corporation.

Since 1982, the Irvine-based company has been in the business of making prehistoric animals come to life. The two dozen creatures cur-

rently on display at the San Diego Wild Animal Park represent only a small sample of Dinamation's ancient menu.

By using the unlikely blend of science, art and technology, Dinamation recreates long extinct species of animals with startling realism. Each dinosaur has a functional robotic skeleton encased in a rubber skin. The dinosaurs crane their necks, gnash their teeth, flex their claws and even

roar under the guidance of a small computer.

Rather than building cartoonish Flintstone-like dinosaurs, Dinamation strives to construct robots scientifically accurate enough for museum display.

Already as many as 30 million spectators have seen the company's creations in scores of museums and

SEE DINOS/PAGE B2

**Lights ... Cameron**  
**... Action** Page B9

**More 'None of your**  
**business'** Page B14

**Classified section**  
**premieres** Page B15



# DINOS

CONTINUED FROM PAGE B1

educational institutions throughout the United States and Europe. The exhibits have enjoyed earthshaking popularity, increasing the attendance at some museums many times over.

Attendance at the Louisiana Nature and Science Museum, for instance, grew from an average 18,000 visitors to 275,000 during the five-month Dinamation exhibit. The Cleveland Museum of Natural History also experienced dramatic attendance increases during the display's run. It saw an increased attendance of 287,000 in a four month period.

**T**he Dinamation story began nearly a decade ago when 47-year-old Chris Mays, a pilot working for TWA, decided that flying commercial airplanes wasn't mentally taxing enough. Mays quit the airlines and opted to seek new opportunities.

"I was bored for a number of years flying airplanes," Mays says. "I wasn't using creative energies."

From a neighbor, Mays discovered robotized dinosaurs on public display in Japan. He also found that the company which produced the dinosaurs was putting some of its creatures up for sale.

Mays mentioned the discovery to neighbor Tom Stifter, who suggested that he buy the robots for resale in the United States. Mays followed his neighbor's advice and Dinamation was born. The first group of Japanese dinosaurs cost Mays \$500,000.

"We looked for ways to display the dinosaurs. We thought of displaying them in fairs and malls," Mays says. "Our last thought was to travel around and display them in tents."

However, even the best laid plans of mice and iguanodons run into snags. Mays found the market for his Japanese-constructed dinosaurs to be slim.

He finally decided on selling the robots to museums, but budget cuts in the early 1980s forced them to turn

down Mays' products. Museums were also not convinced that mechanical dinosaurs would be accepted by the sceptical public or the scientific community.

After Mays donated the presence of a half-sized triceratops to the Los Angeles Museum of Natural History to provide background for its annual dinosaur ball, he hatched the idea of running joint-venture displays with museums.

"I knew then and there which direction to go," he says.

By renting dinosaur exhibits to museums, Mays found a way to launch a multi-million dollar company while giving the public a chance to view representations of the prehistoric past.

Renting dinosaurs isn't cheap, but the exhibits turned out to be a major attraction for museums. The Carnegie Museum of Natural History in Pittsburgh paid more than \$150,000 to Dinamation for a 14-week exhibit which boosted attendance by hundreds of percentage points.

Unfortunately the Japanese dinosaurs lacked scientific accuracy. They were little more scientifically accurate than Godzilla.

On urgings from a "friendly museum director," Mays decided that he would build his own dinosaurs. He enlisted a panel of advisers which included some of the world's top paleontologists to help him design more scientifically accurate models.

Among the paleontologists were: Robert Bakker, adjunct curator of Paleontology at the University of Colorado in Boulder; George Callison, professor of Biology at Cal State Long Beach; Craig Black, the director of the Los Angeles County Natural History Museum; and Harley Armstrong, curator of Paleontology at the Museum of Western Colorado in Grand Junction.

By May of 86, May opened a plant to construct his own dinosaurs.

**T**he process of building the dinosaur fantastic begins with the board of advisers. The paleontologists discuss whether to add to or improve existing displays or create



A Dinamation worker helps sculpt the head of "Big Rex," the company's life-sized robotic model of a Tyrannosaurus rex.

new exhibits featuring a different view of the many facets of prehistoric life.

One exhibit may be built around water-dwelling dinosaurs, while another might depict baby dinosaurs. Dinamation has even constructed exhibits of imaginary animals that might exist if evolutionary progression were to continue for millions of years in the future.

After approval from senior-level management, the painstaking process of gathering fossil information begins.

"We work from known fossil records and rely on the work of others including ourselves," says paleon-

tologist Callison.

Dinamation's scientists travel the world to excavate more fossil information. The team works with other paleontologists and museums to find the latest information on the prehistoric community.

Each year, from April through October, the company runs public expeditions to Colorado's famed Dinosaur Valley, home of some of the richest fossil deposits in the world. There amateur dinosaur enthusiasts participate in the excavation: collecting, preparing and preserving fossils

SEE **DINOS**/PAGE B7

## Museum explores previous, current prehistoric skull reconstructions

How do scientists know what a prehistoric man or woman looked like just by examining a fossil skull or a few bone fragments? This question is explored in detail in a new exhibit at the San Diego Museum of Man called "Faces on Fossils: The Reconstruction of Human Ancestors" running through January, 1992.

The exhibition, a collaboration between artist William Munns of Altered Images, Inc., and the San Diego Museum of Man, explains old and new methods of reconstruction and how the process has developed over the years.

Historical studies feature the Museum's 1915 collection of drawings and sculptures emphasizing how social prejudices often shaped the scientific interpretations. Examples include Piltdown Man (the infamous anthropological hoax), Neanderthal Man, and Java Man.

Explanation of the modern process shows the clay reconstruction of a fossil skull in four stages: first as the bare skull, second with basic musculature, third with cartilage and skin, and fourth as a complete depiction of the head, fully fleshed out but without hair or pigmentation.

Artistic preferences are often explored with four interpretations of pigmentation, nasal shape, and hair treatment. Museum visitors are encouraged to participate by pressing a button next to the figure that best meets their perception of how human ancestors should look. They will be able to see how other visitors have voted for each interpretation.

The exhibit will travel throughout the United States and Canada under the sponsorship of the Museum of Man.

## Prehistoric Timeline

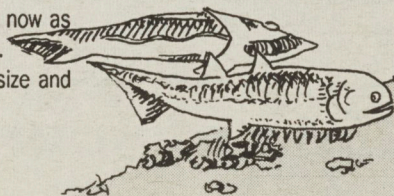
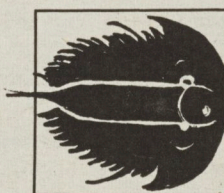
Through fossils and other paleontological discoveries, the first signs of diverse life can be traced back almost 600 million years. The evolution of single-celled organisms through dinosaurs to mammals of today is shown here. Some highlights include:

- 560 million years ago - Soft-bodied creatures are replaced by early vertebrates.
- 420-500 million years ago - Animal life emerges from the oceans.
- 230-360 million years ago - Amphibians evolve into large reptiles, known now as dinosaurs; the dinosaurs rule the earth for approximately 140 million years.
- 65-230 million years ago - Mammals appear, insect population grows in size and diversity with the development of the flower.
- 65 million years ago - Man emerges.

560 million years ago

500 million years ago

360 million years ago





# Oceanside dig reveals several new species

## 45-million-year-old primate uncovered at coastal site

**JONATHAN YOUNG/PIONEER**

**T**raffic delays, ramp closures and detours were expected when CalTrans started its ten-year project of widening California Highway 78. What wasn't expected was what they found in May when working on a section of road in Oceanside: prehistoric fossils.

The discovery became the latest of excavation projects conducted by the San Diego Natural History Museum throughout the county.

These projects have yielded a myriad of fossil remains, providing valuable information for the Museum's paleontologists and others wishing to unravel the mysteries surrounding species extinction, evolution and paleobiology.

Close to 90 percent of the vertebrate fossil specimens in the Museum's collection were found at construction sites. The relationship between developers and scientists has proven to be a significant and legal one since a 1972 law requires developers to retain paleontologists to work alongside bulldozers when grading land that has potential for holding fossils.

As a result, the Museum has developed a valuable working relationship with local construction companies.

Tom Demere, chair of the museum's department of paleontology, says that it is very possible that San Marcos could yield a significant amount of fossils due to its geological topography.

"The City of San Marcos doesn't enforce the Environmental Quality Act enough," Demere said. He cited that further, more in-depth study of the area might yield a great amount of fossils.

Already San Marcos is the home of several archaeological digs that reveal a library of information about ancient Indian tribes that once lived in the area.

In the two weeks allotted for the Natural History Museum's staff to excavate the Oceanside site, scientists believe they have found the remains of two-dozen new species of now-extinct animals.

A primate, standing about three-feet high, and predecessors of goats and pigs are among the fossils found that lived in the Eocene epoch (45 million years ago).

Visitors of the Museum can watch as paid and volunteer paleontologists literally sift through time, trying to separate the dirt from the microscopic fossil fragments. About 50,000 pounds of rock and debris must be sorted, eventually sifting out about a ton of fossils and sediment.

Another recent discovery in July 1990 in Rancho Del Rey was a new species of whale.

The skeleton was nearly complete, missing only its lower jaw and pectoral flippers. Museum field associates determined it was a juvenile whale, measuring 17 feet long. The specimen itself weighed close to one ton.

SEE **FOSSIL**/PAGE B6



Paleontologist Richard Cerutti leads children at San Diego's Museum of Natural History on a fossil excavation at its Unearthed exhibit.

## San Diego unearthed at local exhibit

Prehistoric San Diego is the focus of a new temporary exhibition showing through Nov. 3 at the San Diego Natural History Museum in Balboa Park.

A vast collection of fossil remains, representing 76 million years of San Diego natural history, will take visitors back to a world when dinosaurs roamed the earth, man didn't exist, and the area was completely underwater.

The exhibit displays fossils from five different geologic time periods. The Cretaceous (76 million years ago) is the oldest time period and includes the remains of a hadrosaur, nodosaur and several species of marine invertebrates. These specimens were found

in the Carlsbad area.

The Eocene Epoch (40-50 million years ago), containing the remains of tapirs, rhinoceros and primates, represents fossils throughout North County.

The East Lake region of eastern Chula Vista is where many of the specimens of the Oligocene Epoch (28 million years ago) were found. These include the remains of camels, oreodonts, birds and reptiles.

The Pliocene Epoch (2-3 million years ago) contains the largest number of fossil remains, most of which were excavated in the Chula Vista area. Whales walrus, sharks and sea birds are just some of the specimens on display.

Anza-Borrego Desert State Park is where species from the Pleistocene Epoch (900,000-1.3 million years ago) were excavated. They include examples of ice age mammals; mammoth, bear and saber cat.

"It is important to note," says Tom Demere, Museum paleontologist, "that many of these fossils represent remains of species new to science. They received a lot of media attention when they were first excavated, but have never been on public display until now."

Scaffolding, raised walkways and sunken sand pits create the atmosphere of a construction/excavation site

SEE **EXHIBIT**/PAGE B4

300 million years ago

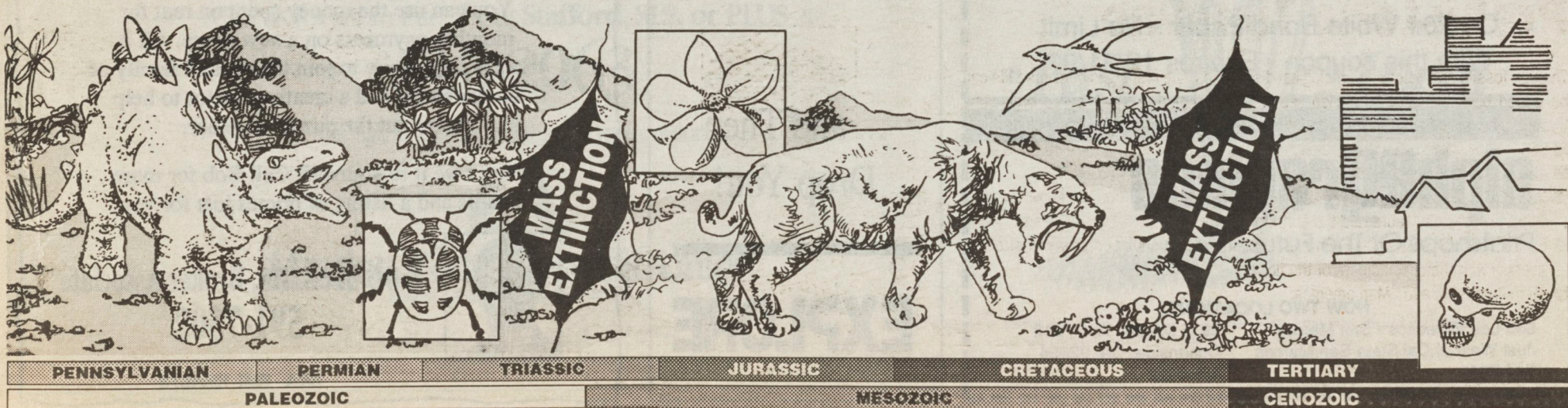
275 million years ago

230 million years ago

120 million years ago

65 million years ago

TODAY





# 'Dinosaurs' lacks factual, educational basis; deserves immediate, complete extinction

DEBBIE DUFFY/PIONEER

**W**hat were the dinosaurs really like? How did they really live? Don't look toward the new show 'Dinosaurs' for any correct answers.

According to the new ABC show, these enormous reptiles seem to represent a mixture of the main characters in the 'Honeymooners' and the 'Flintstones.' This show reeks of erroneous information and character rip-offs.

Earl Sinclair (remember the green Sinclair dinosaur?) is a domestic "father dinosaur" that has a personality and stomach similar to Ralph Kramden's and Fred Flintstone's. Earl's wife, Frances, stays home and continually begs him for money, just like Alice Kramden and Wilma Flintstone, while Earl's friend, Roy, is exactly like Ed Norton, tall and skinny, and always cajoling his best buddy.

Unlike real dinosaurs, these dinosaurs behave and dress like modern humans. They live in houses with modern conveniences, have jobs, and their problems parallel human ones.

## Review

Pushing trees down for a living, Earl works for a company that develops land for dinosaur housing. Earl, like most every other worker in America, cannot seem to meet the financial demands of the family.

In a recent show, Earl reminisces about life before family, where he would have eaten his children and not worried about finances and responsibilities.

Earl decides to go back to his past, the forest. During the program, Earl leaves his home for the safety of the forest, where his ancestors lived, but cannot survive without "cooked" meals and a soft bed. These strong reptiles cannot survive in the wilderness; civilization has overcome them.

The final scene leaves us with a false picture. Earl, with his newly-hatched son, watches cavemen outside his window. The cavemen, clothed in animal skins, try to roll a round object (possibly the first wheel?) while the remains of a fire sputters next to them.

To the viewer, these "beings" are

not as civilized as the dinosaurs. Furthermore, it is prehistorically preposterous to portray dinosaurs and cavemen existing during the same time period.

Instead of personifying the animals, the program should depict dinosaurs as they really lived. If the networks did that, a chance might exist that they could actually present an "educational" show; that would be something against their grain.

'Dinosaurs' uses clever costuming, developed by the son of the late Jim Henson, but the plots are inconsistent and sometimes overly corny.

The premiere segment, for instance, was unbearably bad, however, a show that has Earl looking eagerly forward to tossing his mother-in-law into a tar pit is an instant dark-comedy success.

'Dinosaurs' deserves instant mass extinction. If the executives at ABC don't decide to put the show out of its misery, then maybe we all will get lucky and a meteor will strike the programming offices.

Still, if you want to endure this prehistoric torture, 'Dinosaurs' airs 8:00 p.m. on Wednesdays on ABC.

## EXHIBIT

CONTINUED FROM PAGE B3

where close to 98 percent of the Museum's vertebrate fossils have been found.

Large, articulated skeletons are placed in the sand pits in the positions similar to those in which they were originally found. Other, more delicate fossils are displayed in plexiglass cases. Each epoch has a mural depicting an ancient landscape.

In addition, each time period includes hands-on interactive displays, such as a "Xylobone" where visitors can tap on both modern and petrified

bones to hear and feel the differences in hardness.

Other areas of the exhibit allow visitors to view preserved marine microfossils under a microscope or compare the anatomy of various types of marine and terrestrial mammals.

"Dinosaur Digs" with Museum paleontologists allows children to excavate fossils from a sandbox and learn more about the biology of various animals.

"The exhibit is open during normal Museum hours. Admission is \$5 for adults; \$1 for children 6-17; \$4 for seniors 60 and over; children under 6 and military in uniform free. The museum is open daily 10 a.m. to 4:30 p.m.

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## NEXT ISSUE:

Pioneer Will  
Bring You To  
New Heights ...

... and Then  
Drop You!

## EXPLORE



# Snakes, lizards and turtles crawl throughout local Reptile Haven

KATHY SULLIVAN/PIONEER

*I don't like spiders and snakes  
And that ain't what it takes  
To love me ...*

Jim Stafford, who made millions on those lines after hitting the pop charts in the 1970s, never visited Reptile Haven in Escondido. All types of people who patronize the tiny pet store seem to love those members of the animal kingdom which are the least likely to attract cuddling.

Glass cases display over 10,000 specimens of creatures that slither, crawl and usually inhabit the darkest corners of our nightmares. The shop boasts the largest collection of critters such as snakes, spiders, turtles, lizards and even gigantic African scorpions (super tame of course) in Southern California.

Chris Esop, owner of the unusual store, started Bird Haven 10 years ago. After deciding that lizards and snakes were "more fun and less noisy"

than birds, he sold Bird Haven and opened his reptile emporium.

Kathy, Chris' sister, helps with the massive undertaking of caring for all the animals. Feeding and cleaning cages takes just about all of her day. Depending on the breed, the reptiles eat everything from crickets to rats.

According to Kathy, some of the geckos prefer Gerber baby food, especially strained peaches which they "lick up like a dog." Others prefer a nummy dinner of mealy worms and crickets. Alpo dog food mixed with Butcher's Blend is the favorite of the shop's Nile and Savanna Monitors, which grow to monster proportions.

"Fifty percent of these animals were born in captivity," explains Chris. He says that he and Kathy breed many of the reptiles in the store itself. Recently a huge python layed a surprising amount of eggs. Last June another of their female pythons delivered 78 eggs, each one the size of a grapefruit.

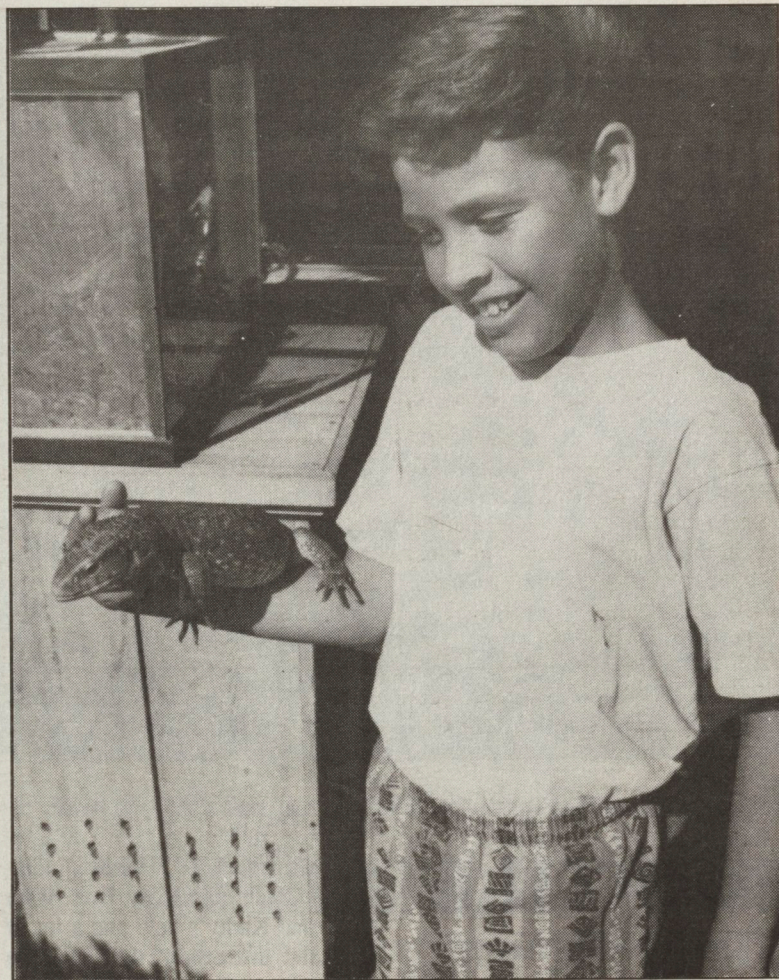
The eggs are taken from the mother

to Chris' home, where they are incubated. It takes about 60 days for python eggs to hatch. He also has an ongoing breeding program for mice and rats to feed the snakes and sell them to snake owners.

Kathy observes that, "Tortoises like people. They are a very social animal." From all the varieties, sizes and shapes that Reptile Haven has in stock, it is evident that people like tortoises too.

Chris shows a Nile Monitor to 10-year-old Daniel Cordoza and explains that this animal is the hardest to tame and the meanest in the store. "They scratch, bite, pee and throw up," says Chris.

This fact doesn't stave off the reptile-loving Cordoza as he pays \$89 for a baby monitor. "They are very pretty," he says. In three years the baby will grow from eight inches in length to three feet. "Snakes are too common," the boy cites as a reason



KATHY SULLIVAN/PIONEER

Daniel Cordoza holds a Savanna Monitor at Escondido's Reptile Haven.

SEE REPTILE/PAGE B6

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KATHY SULLIVAN/PIONEER

Lizards, like this Savanna Monitor, frolic among the scaly beasts at Reptile Haven.

## REPTILE

CONTINUED FROM PAGE B5

for choosing a lizard. Cordoza explains that he specifically wanted a lizard from a different country.

Chris tries to ensure that everyone who buys a reptile knows just what care is needed to keep the pet alive and healthy. He carries a wide assortment of books and magazines to help people with their animals. Behind the counter hangs a sign that reads, "Please read up on care of reptiles before buying."

Most of Chris' day is spent answering questions. The most common inquiries seem to be about which species are friendly to each other and can share a glass display case.

One set of customers, 10-year old Anthony and his parents, were look-

ing for a friend for "Horatio," their young Columbian Rosy Boa. With Chris and Kathy's help and a lot of time and discussion, they chose a gecko.

Prices at Reptile Haven range from inexpensive, for a common garter snake, to very expensive, for a large tortoise. The 100 lb. Spur-Thigh Tortoise tops the price list with a \$1,500

tag, while the smallest species of tortoise in the world, T. Clemlini, are not cheap at \$800 for a pair.

Reptiles and amphibians are the modern representations of our planet's prehistoric past. Some of the species (although not related) look like dinosaurs and just to watch them walk and move is like watching a miniature replica of history.

## FOSSIL

CONTINUED FROM PAGE B3

and had to be removed by skip-loader from the excavation site.

Sea World of California provided a temporary working exhibit in the park where the public could watch Museum paleontologists remove the

surrounding rock to reveal details of the skeleton. The preparation work took approximately three months to complete.

The whale, and fossils found in the Oceanside site, are now part of "Unearthed," the Museum's temporary dinosaur exhibit.

Also included in the 'Unearthed' exhibit are fossils dug from Carlsbad locations.

## Mass extinction theories bring cause for debate

After roaming the planet for 140 million years, dinosaurs ended their reign on the planet 65 million years ago. Theories on the sudden extinction of the many species of animals bring heated debate within the scientific community.

According to scientists, the species that survive today represent just one percent of the life forms that have lived on Earth. The history of life on the planet is punctuated with episodes of mass extinction followed by periods of wild diversity among those species surviving.

Various theories have been put forth by scientists to explain these events and multiple factors may contribute to any or all mass extinctions. All mass-extinction theories point to changes in the Earth's environment as the direct cause.

Here are some of those theories:

■ **Meteorites:** If a huge meteorite struck the planet, it could cause high winds, 2,000 degree rock vapor and an enormous cloud of dust. Some of the expected after-effects would include fires, dust-darkened sky, acid rain and a greenhouse effect.

If the meteorite was hurled into the ocean, the resulting tsunamis would cause upwelling of cold, oxygen-poor water. This might account for the extinction of marine animals.

The meteorite theory is often used to explain the demise of the dinosaurs. Samples of iridium, a metal rare on Earth but common in meteors, have been taken from three distinct sites-New Zealand, Denmark and Spain-that were enriched with soot, which may indicate that global fires resulted from the impact.

■ **Massive volcanism:** Particles ejected into the air during eruptions would block sunlight, initiating a period of cooling.

This theory is applied to dinosaur extinction by some researchers who note that the die-off started at least two million years before the end of the Cretaceous period and may have continued well beyond it.

■ **Continental drift:** As land masses are moved by plate tectonics, the planet may undergo radical climatic changes.

This may be the best explanation for the disappearance of 96 percent of all species at the close of the Permian Era-easily the most severe extinction of all time.

While terrestrial life was just beginning to flourish during the Permian, tectonic forces joined all of the planet's continents into a single colossal land mass. This caused a vast reduction in shallow offshore habitats.

Pangea, as the supercontinent is known, extended from pole to pole, which would bring about a series of ice ages. Tropical seas would have chilled and the climate on land would have been dry and frigid.

■ **Competition:** Some mass extinctions appear to have been accelerated by the development or expansion of newer species. This may have been related to changing sea levels creating or obliterating land bridges and thus affecting the emigration of animals.

The first great extinctions are generally explained with this theory.

Primordial slime, for example, was unable to tolerate the oxygen produced by the up-and-coming stromatolites. The stromatolites, in turn, became the most successful life form on Earth, filling shallow warm oceans and eventually altering the chemistry of the seas and atmosphere.

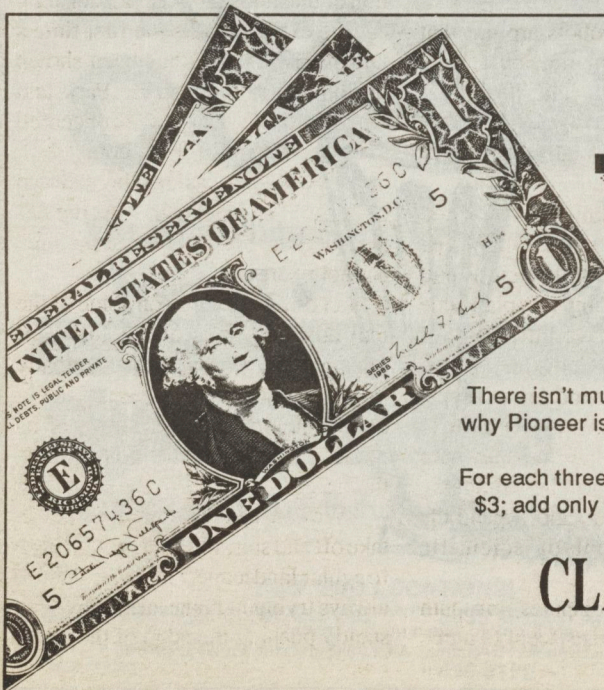
This allowed animals to develop, which fed on the stromatolites and brought their demise except in the most remote and protected areas.

Competition may also have played a role in the dinosaurs' last stand. Scientists find evidence that small, primitive mammals feeding in great numbers on flowering plants may have significantly reduced the food supply for herbivorous dinosaurs.

The most recent episode of mass extinction can clearly be attributed to competition. It started about 11,000 years ago and has accelerated toward the present.

Humans as hunters initiated, or at least aggravated the extinction of saber-toothed cats, mastodons, mammoths, giant sloths, short-faced bears, dire wolves and other large mammals at the close of the last ice-age. Humans as developers continue to accelerate the extinction rate right up to the present, one of the greatest mass extinctions of all time.

SOURCE: National Geographic



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# DINOS

CONTINUED FROM PAGE B2

under professional guidance.

Unfortunately, fossilized bones give no indication of the texture of a dinosaur's skin or its color ... information vital in the creation of a three-dimensional robot.

By observing animals, Dinamation's scientists are able to add layers of muscle and skin to dinosaur skeletal information. They take moving x-rays of living animals to see how bones reflect muscles.

Callison suspects that many prehistoric animals were not of the traditional brown or green hues the public has grown to accept. He theorizes that they were brightly colored, using hues like birds or animals of today.

"We're attempting to show dinosaurs as interesting creatures," Callison says. "There were so many sizes and shapes of dinosaurs that we feel they had diversity in color as well."

Callison indicates that the large eyes and optic nerves of many dinosaurs suggests that they were sensitive to color. They may have used color for mating purposes or for natural camouflage.

Since it is currently impossible to determine which hues the dinosaurs had, Dinamation's scientists and artists can only guess on their colors.

The sounds which the dinosaurs emitted are also a matter of speculation for the Dinamation team.

"We will never know what sort of vocal organs a dinosaur had, but we do know something about the size and shape of various resonating chambers," Callison says.

For the *Tyrannosaurus rex* at the Wild Animal Park, Dinamation used the vocalizations of birds and other reptiles related to the long extinct animal and tried to create a "biologically feasible" voice. The result is a terrifying low-frequency roar.

**B**ecause of the speculation involved in creating dinosaur colors and sounds, some museums refuse to display Dinamation robots.

"The American Museum in New York is reluctant to display Dinamation exhibits because they represent colors and patterns that are unknowable. They prefer to stick to what is known rather than displaying a possibly false representation," says Callison.

He admits there is proper justification to the museum's claim, but also points out that Dinamation's speculations are built upon a solid scientific foundation and not pure guesswork.

Even though the American Museum won't utilize the colorful robot-



Workers at the Dinamation plant load "Big Rex" on a flatbed truck with the help of a forklift. The life-sized robot is currently on display at the San Diego Wild Animal Park.

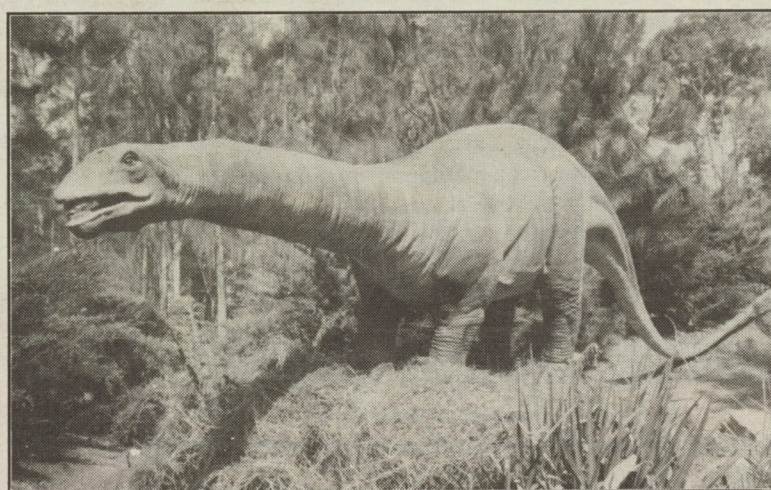
ics, Callison says they do display paintings which depict dinosaurs in a more colorful manner than does Dinamation.

Other prestigious museums feel similarly to the American Museum. The Field Museum in Chicago and the Peabody Museum in New Haven, Conn. also adhere to the conservative conventions held by traditional natural history museums.

Museums such as the American Museum have built their reputations on the fossilized remains of dinosaurs. A spokesperson for the American Museum says the museum has so many fossils, there is no room for a robotic exhibit which hypothesizes how a dinosaur may have looked.

Yet, the presence of a dinosaur skeleton does not insure accuracy. A skeleton of an apatosaurus (previously known as brontosaurus) on display at the museum has the skull of a camarasaurus. Scientists noted the error in the 70s but due to the instability of the skeleton, exchanging the skull has been too difficult an endeavor. For years, the museum indicated in no way that the skull was incorrect.

Dinamation paleontologist Bakker says the skeletal displays at most museums are boring and do little in helping the viewer imagine dinosaurs



LARRY BOISJOLIE/PIONEER

A 40 percent scale robot of an apatosaurus greets visitors at the San Diego Wild Animal Park's 'Wild Woods: From Dino to Rhinos' exhibit.

as they really were.

"How can you expect a museum visitor to form a realistic impression of any animal, even a horse, from its skeleton alone," Bakker asks.

San Diego's Museum of Natural History has hosted a Dinamation display three times in the last decade. According to Tom Demere, chairperson of the museum's department of Paleontology, the displays have been very popular.

Demere says that his museum has no objections to Dinamation displays if they are viewed with fossils and educational elements.

"Some of the robots are not that accurate," says Demere, "but if they are surrounded with educational materials they make a real viable display. They are especially helpful for children"

According to Callison, Dinamation displays give children a form of visceral play. With television and Nintendo dominating the play-time of children, they have little time for realistic play, says Callison.

He says another important aspect of Dinamation is its proven ability to generate funds for museums and other scientific institutions. These funds are used to further study and expand the ever-growing pool of scientific knowledge.

Even with the disputes, museum curators and scientists seem to agree on the importance of learning about

dinosaurs.

"When you look at dinosaurs, you see animals that lived millions of years ago," says Callison. "They excite our imaginations which is the most important thing they could be doing. They exercise our curiosity as few things can."

**D**uring the summer, the Wild Animal Park's Dinamation exhibit worked well in boosting attendance at the park. Joel Edelstein, public relations production coordinator at the park, says the display has helped increase the public's awareness of endangered species today.

"There is a real, natural link to the endangered species and the extinction of the dinosaurs," says Edelstein.

The exhibit marks the first time a Dinamation display has been shown out of doors, causing the Park and Dinamation officials to be concerned over the welfare of the robots.

Yet despite occasional breakdown of the robots, Edelstein says the experience has been a "real adventure" for both parties.

According to Callison some of the real adventure lies in the future of Dinamation. He says the company has already come a great distance in the development and accuracy of its models, but stresses there is still farther to go.

"We don't have a creature that can take off and start walking around in an irregular landscape," he says. "We're always trying to make strides by constantly pushing the edge of the envelope."



# PREHISTORIC LIFE

## Where to see these ancient fossils, mechanic dinosaurs, visual displays

There are several places in the county where people can get a look at the past creatures and dinosaurs that roamed in the area. Television also echoes the recent trend of dinosaur mania that is currently sweeping the country.

**The Wild Woods: From Dinos to Rhinos** is the title of the Wild Animal Park's latest offering, a five-month, four-acre exhibit of robotic dinosaurs and prehistoric mammals built by Dinamatin International.

Two dozen lifelike and animated animals, from the three-story-high robotic Tyrannosaurus rex to the predatory saber-toothed cat, populate the Park's Conifer Forest, where they are surrounded by living plants that existed during the Mesozoic Era.

The quarter-mile trail through the Wild Woods twists and turns through thick foliage, and the growls of ancient animals fills the air.

The Wild Woods exhibit includes a variety of educational graphics and programs that discusses the fascinating similarities between prehistoric creatures and those which live today. They also describe what's being done at facilities like the Wild Animal Park to prevent modern endangered species from going the way of the dinosaurs.

Tickets for Wild Woods for non-members is included in the admission cost into the Park. Tickets are \$16.50 for adults and \$9.50 for children. San Diego Zoological Society members, who can enter the Wild Animal Park free with membership, need to buy their tickets for Wild Woods separately; they are \$1.50.

The exhibit is open every day, 9 a.m. to 5 p.m. For more information on the Wild Woods exhibit, special dinosaur school programs and behind-the-scenes tours, call 234-6541. For group information and discounts, call 747-8702.

Prehistoric animals from San Diego can also be found at the San Diego Natural History Museum's **Unearthed** exhibit through Nov. 3.

A vast collection of fossil remains, representing 76 million years of San Diego natural history, takes visitors back to a world when dinosaurs roamed the earth, man didn't exist, and San Diego was completely underwater.

"It is important to note," adds Tom Demere, Museum Paleontologist, "that many of these fossils represent remains of species new to science."

"Unearthed" is open during normal museum hours. Admission is \$5 for adults, \$1 for children and \$4 for seniors; military personnel in uniform are admitted free.

The Museum is located at the end of the Prado in San Diego's Balboa Park. For more information, call the Museum at 232-3821.

The San Diego Museum of Man, also in Balboa Park, is currently displaying **Faces and Fossils: The Reconstruction of Human Ancestors**.

The exhibit, a collaboration between artist

William Munns of Altered Images, Inc. and the San Diego Museum of Man, explains old and new methods of reconstructing prehistoric fossil skulls and how the process has developed over the years.

The exhibit will be on display through January 1992 and then travel throughout the United States and Canada under the sponsorship of the Museum of Man.

"Faces and Fossils" is open during normal museum hours. Admission is \$3 for adults, \$1 for children; military personnel in uniform and children under 6 years old are admitted free.

The Museum is located in the Prado (under the bell tower) in San Diego's Balboa Park. For more information, call the Museum at 239-2001.

**Rancho La Brea**, located in Los Angeles, is one of the world's most famous fossil sites. "Tar pits" formerly mined for natural asphalt have yielded an incredibly rich treasure trove of fossils up to 40,000 years in age.

Here huge mammoths, saber-toothed cats, packs of wolves and hosts of birds became trapped and entombed. Sharing their fate were many other creatures ranging from tiny insects to giant ground sloths.

The idea of locating a museum on this site was first proposed by Captain G. Allan Hancock who deeded Rancho La Brea to the County of Los Angeles in 1916.

Today, the extensive collections from Rancho La Brea are stored and featured in impressive exhibits in the museum, which opened in 1977 as a satellite of the Natural History Museum of Los Angeles County.

For two months each summer, visitors can view excavation of Rancho La Brea material from Pit 91, one of the richest fossil deposits in the world.

"Chock full of bones" is how one Pit 91 paleontologist described the tar pits.

Scientists have recovered almost 1.5 million vertebrate and 2.5 million invertebrate fossils from the deposits. In all, some 140 species and plants and more than 420 species of animals are now known from Rancho La Brea.

The Page Museum is located in Hancock Park at 5801 Wilshire Boulevard, 7 miles west of downtown Los Angeles. Hours are 10 a.m. to 5 p.m. Tuesday through Sunday; the museum is closed Mondays.

Admission is \$3 for adults, \$1.50 for students and senior citizens, and 75¢ for children. For more information, call the Page Museum at (213) 936-2230.

As the parent museum to the La Brea Tar Pits, the **Los Angeles Natural History Museum** has a permanent collect of dinosaurs on display.

Dinosaur fossils, including duckbill dinosaurs, camptosaurus and allosaurus

posed as if in battle and one of the finest tyrannosaurus rex skulls on exhibit anywhere, are well-represented here.

The Natural History Museum is located at 900 Exposition Boulevard in Exposition Park, one block east of Vermont Avenue, just off the Santa Monica Freeway (10). Admission is \$5 for adults, \$2.50 for students and senior citizens and \$1 for children. The first Tuesday of each month is free.

Specific information may be obtained by calling (213) 744-3414 during museum hours.

For 24-hour recorded information, call (213) 744-DINO.

For those who like to travel to the Palm Springs, the dinosaur statues at **Cabazon** mark a scenic and educational stopping point for prehistoric-loving travelers.

The small rest stop off Highway 10 in Cabazon feature two larger-than-life statues of a tyrannosaurus rex and an apatosaurus (otherwise known as brontosaurus). Inside the statues are museums and gift shops built to inspire the imaginations of all who have thought about the prehistoric world.

Cabazon's dinosaurs took twenty years to construct and were featured in the film 'Pee Wee's Big Adventure.'

**Anza Borrego State Park** is the home of a permanent exhibit of fossils found in the desert area. The museum, located within the visitor's information center, shows films illustrating what the park looked like millions of years ago.

Many fossils found in the Anza Borrego desert are now on display at the San Diego Museum of Natural History in its **Unearthed** exhibit.

Wednesday nights on ABC, couch potatoes can enjoy the sitcom 'Dinosaurs' at 8 p.m. The half-hour program follows the antics of a family of dinosaurs ruling a Flintstone-like community.

Even though the program offers little in terms of scientific validity, it does give young ones the chance to visualize dinosaur fantasies.

America's all-time favorite anchorperson, Walter Cronkite, hosts a four-part series on the Arts and Entertainment network called 'Dinosaur.'

The series, scheduled from Sept. 8 through Sept. 11 at 8 p.m., explores the dinosaur world from a scientific point of view.

'Dinosaur' expounds the controversial theory that dinosaurs were not actually the forefathers to lizards and snakes but to birds. The program examines all aspects of dinosauria from extinction to personality.





## Women find heroic new niche in films

Most male Hollywood directors make films like they have sex; the man is on top, there is only one climax and the woman's role is insignificant.

There have been too many times that I've had to endure mindless bimbos bumbling through a sexist script only to make the leading man look good for the final scene.

Over the decades, Hollywood's treatment of women, for the most part, has been deplorable. Female roles were stereotypically weepy, bitchy, gutless, stupid or just plain housewifey. Rarely have we seen women as three-dimensional persons on film.

Enter James Cameron.

With his ripe imagination and innovative nonstop style, Cameron has done for action-adventure films what Steven Spielberg has done for family films. Cameron is at least Spielberg's equal in creating stunning visual images.

His movies never seem to end, with climactic scenes following climactic scenes. Critic Roger Ebert pointed out that Cameron's movies keep him so tense for so long that he leaves his pictures feeling physically ill, but I always thought Ebert was a wimp anyway.

Yet, Cameron adds a dimension to his work that has been avoided by most other filmmakers. He uses strong, self-sufficient women.

Cut to Sigourney Weaver.

In 'Aliens' Weaver rocketed to fame as Ripley, a space traveler weary from fighting the unearthly beast in 1979's hit 'Alien.' In the far better sequel, Ripley must once again face her alien foe, only this time she has the help of the marines.

Unlike the first film, 'Aliens' concentrates more fully on the characters, particularly Ripley. The script, which was written by Cameron, tags each individual with unique personality traits. All the parts are believable and very human.

Much to my surprise, the female roles in 'Aliens' were the strongest of the bunch. Women aren't treated as subordinates in this film, rather they are viewed as vastly superior warriors than men.

In the movie's final sequences, Ripley is driven by maternal instinct

to battle the mother of all aliens. It's an unforgettable confrontation I like to call 'Mombo vs. Mama-Godzilla.'

Weaver's strength of character and maternal vulnerability landed her an Academy Awards nomination for best actress—the first ever for a woman in a science fiction role.

Fish-eye lens view of Mary Elizabeth Mastrantonio.

In the critically overlooked but visually awesome film 'The Abyss,' Mastrantonio portrays the quintessential career woman in her role as Lindsay Brigman.

She has developed a revolutionary undersea drilling platform that is used to investigate a downed submarine. During the investigation, the crew of the platform, captained by Lindsay's estranged husband Virgil (Ed Harris), rendezvous with undersea aliens. It's like a cross between 'The Undersea World of Jacques Cousteau' and 'Close Encounters of the Third Kind.'

Mastrantonio's Lindsay is fiercely independent and resents using her husband's last name. In one scene she tells her husband that her drilling platform takes priority over her marriage.

Lindsay is the most intelligent and self-sacrificing woman of all Cameron's characters. In the film's most dramatic scene, Lindsay sacrifices her life with the hopes that she may be later revived in order to save her husband.

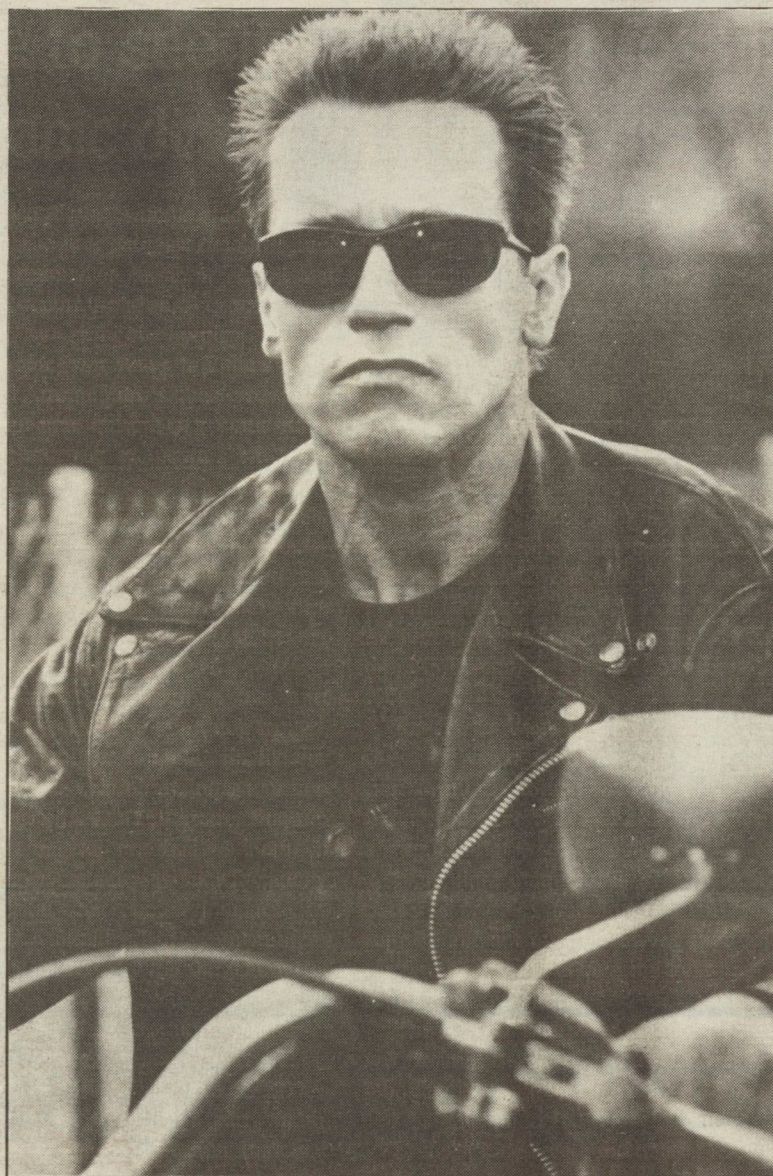
It is no wonder the undersea visitors

choose her to make contact with.

Flash to Linda Hamilton.

As Sarah Connor in Cameron's 1984 hit 'The Terminator' and the wildly successful 'T2,' Hamilton has shown an aspect of "the weaker sex" that the Israelis have known for years—that women are as good in combat as they are in the kitchen.

SEE VIDEO/PAGE B12



Arnold Schwarzenegger dons biker clothes in 'Terminator 2.'

## 'T2' hits hard with effects, but lacks story

WENDY WILLIAMS/PIONEER

When Arnold Schwarzenegger says he'll be back, you'd better believe it.

He certainly made his promise come true in the much publicized, 100-million dollar sequel to 'Terminator.' What 'Terminator 2: Judgment Day' may make up for in more complicated special effects than its predecessor, it certainly loses in its story, however.

Linda Hamilton is back as Sarah Connor. When we left her before, she was pregnant and escaping into Mexico to try and avoid the oncoming nuclear holocaust. But 12 years later, she's incarcerated in a top security mental facility and her son John is in a foster home.

Everything changes when an updated terminator shows up to finally do away with John Connor, the man who will eventually lead the resistance against the computer controlled world of the future.

Following in this terminator's footsteps is none other than Schwarzenegger, this time playing a good guy sent by John into the past to protect himself and his mother from this new threat.

Eddie Furlong plays the 12-year-old John who has a hard time grasping all of this when Arnie saves him the first time from the indestructible new terminator, made from liquid metal who can adapt and change his form to fit any situation.

The story follows John, Sarah and Arnie as they try to alter the course of future world events and kill off the new terminator, a T-1000 model played by Robert Patrick.

The real star of this picture isn't Arnie, but the special effects. Patrick's terminator character is defined by the constantly changing forms he adopts.

But Schwarzenegger needs a worthy opponent or it really isn't an interesting movie, is it? He definitely has his hands full with this enemy and, as usual, he plays it very straightforward.

'Terminator 2' will keep you on the edge of your seat and make you laugh, but in final analysis, the first film had a simplicity that no amount of special effects can improve upon.

# LIGHTS CAMERON ACTION

VIDEO REWIND

BY SHEILA COSGROVE



# 'Dead Again' misses plot pieces but comes alive with wit, beauty

Has Hollywood finally accepted the karmic teachings of Shirley MacLaine?

Well, not exactly. But Brit Kenneth Branagh has taken his own particular slant on the theory of reincarnation in 'Dead Again.'

Maybe you'll remember Branagh from his critically acclaimed 'Henry V' a few years ago. Following in the footsteps of Laurence Olivier, he starred in and directed that picture, establishing himself as a talent of note in this country.

Branagh again has taken on directing and acting duties in 'Dead Again' along with wife Emma Thompson in this tale of a couple whose love survives death and four decades. Thompson plays a woman who has amnesia and Branagh is Los Angeles private detective Mike Church, who has agreed to help find out who she is.

When he puts her picture in the paper, a strange man named Madson (Dereck Jacobi) appears and hypnotizes Grace (as Mike has named her), taking her back to 1948. She recalls in vivid detail the romance of Roman and Margaret Strauss, also played by Branagh and Thompson. (These sequences are filmed in black and white).

It turns out that composer Roman was executed for the murder of his pianist wife Margaret, who was stabbed in the throat by gold-plated scissors.

At first, Mike is reluctant to believe in the idea of past lives and karmic accountability, until he talks to a former psychiatrist, played by Robin Williams.



**WENDY WILLIAMS**

PIONEER FILM CRITIC

and make retribution for the past.

Believe it or not, there is a great deal of humor in this story. It would seem that Branagh has his tongue firmly in his cheek. While he is telling his story, you can sense a glimmer of mischievousness behind the scenes. He did, after all, cast one of the funniest comics of our day in a small, but crucial role.

Even with this sly humor and a hugely talented cast, Branagh must still contend with a complicated story that leaves out a few important pieces to the puzzle.

Despite that, it's a beautiful film to watch. Black and white photography is a lost art these days whose glory Branagh gamely revives here. And despite the holes in the story, the film is engaging to watch.

Even if Branagh and Hollywood aren't totally sold on the theory of reincarnation, 'Dead Again' gives us all a chance to ponder the possibilities.

The story meanders between the past and the present, revealing more and more about the people involved and how they have all gathered together in the present to relive the events



Kenneth Branagh and Emma Thompson dance through a complicated storyline in 'Dead Again.'

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\*\*Monitor sold separately.



## Music Calendar

**All-acoustic Open Mike:** Every Sunday at 5 p.m. at the Metaphor Coffee House, Escondido. 489-8890

**Barry Manilow:** Performs Sept. 12-14 at Symphony Hall. 278-TIXS

**California Connection Jazz:** Performs on Tuesdays at San Luis Rey Downs and again on Thursdays at the Lawrence Welk Restaurant, Escondido. 758-3762/749-3253

**Candy Skins:** Performs with Transvision Vamp at Backdoor, SDSU campus. 278-TIXS

**Chapterhouse:** Originally named Incest, this group performs Sept. 8, 8 p.m., at the Backdoor, SDSU campus. 278-TIXS

**Crowded House:** With Richard Thompson performs Sept. 8 at 7:30 p.m. at Symphony Hall. 278-TIXS

**Diana Ross:** Appearing at the Starlight Bowl Sept. 26 at 8 p.m. 544-STAR

**Don Henley:** Sept. 7 and 8 at the Irvine Meadows Amphitheatre, Laguna Hills. 278-TIXS.

**Folk Music Hoot Night:** Every Wednesday at 7:30 p.m. at the Metaphor Coffee House, Escondido. 489-8890

**Incredible Hayseeds:** At Winston's, Ocean Beach, Sept. 3. 222-6822

**Jazz and Blues Open Jam:** Mondays at 8 p.m. at the Metaphor Coffee House, Escondido. 489-8890

**John Moore's Bluegrass Etc.:** That Pizza Place in Carlsbad hosts this group at 7 p.m. the fourth Thursday of each month; they perform at the Harbor Light Restaurant, Oceanside, Wednesdays and Sundays each week.

**Melissa Manchester:** Sings at the Oceanside Pier Bandshell Sept. 19. 966-4530

**Moody Blues:** Sept. 6 at the Irvine Meadows Amphitheatre, Laguna Hills. 278-TIXS

**Open Mike Sessions:** Thursday nights at Maxine's Del Dios Country Store, Escondido. 743-3190/743-8471

**Ray Charles:** Humphrey's hosts two concerts at 7 and 9 p.m. on Sept. 3 at Shelter Island, San Diego. 278-TIXS/523-1010

**Ruby and the Red Hots:** Sunday Nights at the Full Moon, Encinitas. 436-7397

**San Diego Symphony Summer Pops Program:** "Musical Pictures" with Murry Sidlin conducting is presented Sept. 4 and 5 at 7:30 p.m. The concert is at the Embarcadero Marina Park, San Diego. 699-4205

**San Diego's Big Band Concert and Dance:** Starting at 4 p.m. in the Vineyard Shopping Center, Escondido, every Sunday. 275-3355

**Santana:** Performs Sept. 4 at 7:30 p.m. at the Starlight Bowl. 544-STAR

**Savery Brothers:** 9 p.m. Fridays and Saturdays at the Pomerado Club, Poway. 748-1135

**Street Scene:** Michelob presents this two-day special event, Sept. 6-7 in 12 city blocks in the Historic Gaslamp Quarter, San Diego. Highlights to the event include over 50 bands and food booths, 25 artist performing each night, 10 stages of continuous music and 4 beer gardens (must be 21-years-old). Rock, blues, jazz country, zydeco, world beat, reggae and Tex/Mex musics will be featured. Tickets are \$16 in advance or \$20 at the door; there's a \$30 in advance two-day package. Contact the Street Scene Hotline at 268-9025 for more information. Call TicketMaster, 278-TIXS, for tickets.

**Tami Thomas' Big Band Swing and Dixie/Jazz Band:** Performs Wednesdays at Mission Inn, San Marcos. 471-2939

**Transvision Vamp:** The SDSU Associated Students sponsors this Sept. 11 performance at the Backdoor, SDSU campus. For information, call the Aztec Center Box Office at 594-6947; for tickets, call 278-TIXS.

# STREET SCENE

SEE CALENDAR/PAGE 12

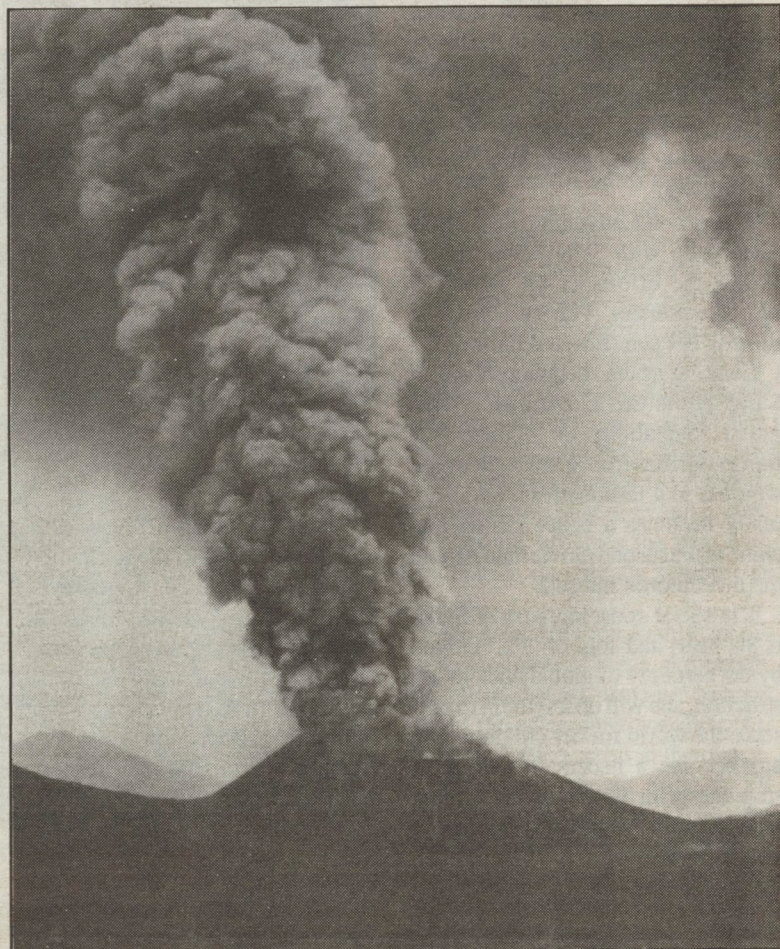
## Volcanos erupt at space theatre

During the summer, Mount Penatubo unleashed its anger on the tiny islands of the Philippines. The volcano spread ash and debris around the globe and is suspected of causing the entire planet to cool by fractions of a degree. Penatubo is just one of the many volcanos found in the Pacific Rim.

Now playing at the Reuben H. Fleet Space Center, "Ring of Fire" is a new OMNIMAX film about the great circle of volcanoes and seismic activity that rings the Pacific Ocean. The film opened May 18, the 10-year anniversary the eruption of another Pacific Ring volcano, Mount St. Helens.

"This film not only introduces audiences to the geographical concept of the Ring of Fire, it also seeks to show why and how people live on this fiery boundary, which circles 30,000 miles around the Pacific Rim," said Dr. Jeffrey Kirsch, consulting producer for the Space Theater.

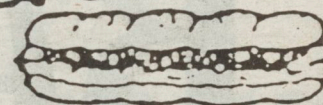
To produce "Ring of Fire," a team of geologists, anthropologists, computer animators and filmmakers worked for over seven years to cover this great boundary of the earth's crust,



SEE FIRE/PAGE B14

The Navidad Volcano erupts in 'Ring of Fire.'

## Sub-Marina



### 34 varieties of subs & sandwiches

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|---|--|
| 1. Salami, Cheese   | 18. Ham, Turkey, Cheese                        |
| 2. Ham, Cheese  | 19. Ham, Roast Beef, Cheese                    |
| 3. Ham, Capicola, Cheese                                      | 20. Roast Beef, Turkey, Cheese                 |
| 4. Pepperoni, Cheese  | 21. "Hot" Meat Ball, Cheese                    |
| 5. Pastrami, Cheese   | 22. "Hot" Bar-B-Q-Beef, Cheese                 |
| 6. Ham, Salami, Cheese  | 23. Tuna or Chicken Salad, Cheese              |
| 7. Mortadella, Salami, Cheese                                 | 24. Ham, Pepperoni, Cheese                     |
| 8. Ham, Prosciutto, Capicola, Cheese                          | 25. Ham, Pastrami, Cheese                      |
| 9. "House Sub" - Ham, Prosciutto, Capicola, Pepperoni, Salami | 26. Ham, Corned Beef, Cheese                   |
| 10. Combination Cheese  | 27. Pepperoni, Salami, Cheese                  |
| 11. Corned Beef, Cheese                                       | 28. Canadian Bacon, Turkey, Cheese             |
| 12. "Vegi" - Avocado, Alfalfa Sprouts, Provolone, Swiss       | 29. Ham, Canadian Bacon, Cheese                |
| 13. Roast Beef, Cheese  | 30. Ham, Mortadella, Pepperoni, Salami, Cheese |
| 14. Turkey, Cheese  | 31. "BLT" Bacon, Lettuce, Tomato, Cheese       |
| 15. Avocado, Roast Beef, Cheese                               | 32. "Club Sub" - Ham, Turkey, Bacon, Cheese    |
| 16. "ATC" - Avocado, Turkey, Cheese                           | 33. Ham, Mortadella, Cheese                    |
| 17. "Triple Play" - Ham, Turkey, Roast Beef, Cheese           | 34. "FEATURED SUB"                             |

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## Sub-Marina





## VIDEO

CONTINUED FROM PAGE B9

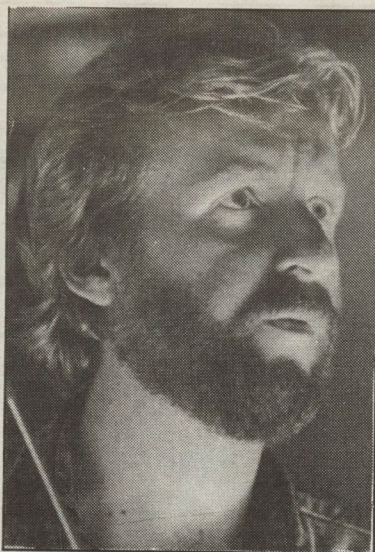
Throughout both films Sarah battles robotic assassins sent from the future to change history. The first movie brought Arnold Schwarzenegger (he with the body fantastic) as the unstoppable killing machine sent to destroy her.

The second adventure has Sarah teamed up with Schwarzenegger to thwart the efforts of an especially nasty terminator (Patrick Harris) to destroy her son (Edward Furlong).

Looking at the metamorphoses of Sarah in the two movies we see the grand adaptability of women. She transmogrifies from a lowly greasypit waitress to a terminatrix. Sarah actually becomes a better killing machine in the second movie than Arnold the mezmorph himself.

The social consciousness of Sarah is the heart and soul of 'T2.' Driven by the certainty of global nuclear destruction, she will do anything to preserve the world for her children. She has become a necessary animal to stop the grim future of the human race. Benign beauty has become a killing beast.

Final credits.



JAMES CAMERON/  
DIRECTOR

Cameron has denied in countless interviews that his films champion feminism, but we can't ignore their impact on the women's movement.

Over and over again he has demonstrated that women can face insurmountable odds and emerge victorious. Let's hope the success of Cameron's films helps Hollywood realize that there's more to women than running make-up and dishpan hands.

Fade to black.

## CALENDAR/CONTINUED

### Theater

**Breaking the Code:** This true-story follows Alan Turing, a British code-breaker, and is performed by the North Coast Repertory Theater. It runs through Sept. 14 at the Lomas Santa Fe Plaza, Solana Beach. Tickets are \$12 and \$14. 481-1055

**Evita:** The Moonlight Amphitheatre presents this Andrew Lloyd Webber musical based on the life of Eva Peron through Sept. 9. Performances are at the Brengle Terrace Park open-air theater. Tickets are \$6-\$12. 724-2110

**Julius Caesar:** The Naked Shakespeare Company performs

this free play about tragedy in ancient Rome. Performances are in the Zoro Gardens; the show runs through Sept. 22 and alternates with 'The Tempest.' 295-5654

**A Lesson From Aloes:** Athols Fugard's drama is recreated by the La Jolla Playhouse at the Mandell Weiss Theatre, La Jolla. Tickets are \$21-\$29 with performances running through Sept. 29.

**Murder at the Cafe Noir:** Dinner is included in this murder-mystery production. It runs indefinitely on Friday and Saturdays in the Lake San Marcos Resort, San Marcos. Prices are \$30 and \$32. 544-1800

**The Tempest:** The Old Globe Theater presents their new show through Oct. 6 at the Lowell Davies Festival Theater, Balboa Park.

Tickets are \$21-\$28.50. 239-2255  
**The Tempest:** Naked Shakespeares Company presents this free performance through Sept. 22 with alternating performances of 'Julius Ceasar.' Shows are at the Zoro Gardens, Balboa Park. 295-5654

## Films

**Best of the Fest:** The Sixth Annual Festival of Animation features 16 animated short films.

SEE **CALENDAR**/PAGE B14

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# Don't cry for Moonlight's 'Evita', it's good

DEBBIE DUFFY/PIONEER

Don't cry for Evita — enjoy it.

Pack a picnic basket or purchase a bucket of chicken, grab two beach chairs, include a warm blanket, and you are ready for a production of 'Evita' at the outdoor Moonlight Amphitheatre in Vista.

The atmosphere at the Moonlight is warm, cozy and friendly. While watching the production, you can enjoy the stars, both on stage and in the sky.

'Evita' portrays the life of Eva Duarte from the age of fifteen to her climb up the social ladder (by sleeping with men of higher and higher positions), to her status as wife of dictator Juan Peron, to her death from cancer at age 33.

Alicia Irving performs the role of Eva, referred to as Evita in the height of her success. At the beginning of the performance, one wonders whether she can handle the dancing and the singing, but Irving proves herself when she sings "Don't Cry for me Argentina." Irving masters the older Evita much better than the younger, more energetic Eva.

Che Gueverra, played by Jim Graft, becomes the narrator and the judge



Alicia Irving is Eva Peron in the Moonlight Amphitheatre's production of 'Evita.' The show runs through Sept. 9.

for "Evita." Che's actions are threatening because of his opposition to the tyrannical ruling of Peron. However, he is also the objective bystander who helps the audience see both the good

of Evita and the evil of Juan Peron.

The most striking, electrifying scene is when Evita convinces the unions to support her husband, Peron, as president. The stage, aglow with

torches and voices, contains splashes of colors and pictures supporting the unions. The song, "A New Argentina," is a strong militaristic example

of the unions' solidarity and support of Peron. The scene portrays the strength and love Evita possesses for and from her people.

Another scene, much lighter than the union scene, is with the "high society people," who strongly disapprove of Evita being married to Peron. They glide on stage in one large, tightly joined group, all wearing black and white, singing their displeasure and dislike for Evita. Their gestures and faces are hilarious, and, at the end, they must strip off their clothes and jewels and mingle with the peasants of Argentina because of Evita's orders. The "group" provides the play with light humor, inviting the audience to enjoy it.

One great addition to this play is the still pictures of Evita, Argentina, and Peron, that are provided on each side of the stage, intentionally coinciding with each scene in the play.

Evita runs through Sept. 9; all shows are at 8 p.m. The Moonlight Amphitheatre is located in Brengle Terrace Park in Vista.

With only \$6 for lawn seats and \$10-\$12 for the permanent seating, this production is well worth a viewing.

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"a head of the rest"



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## CALENDAR/CONTINUED

Shows run Sept. 6, 7, 13, 14, and 20 at the San Diego Museum of Contemporary Art, La Jolla. For tickets call, 278-TIXS; for more information, call 551-9274, or 454-2594 the night of the show.

**Reuben H. Fleet Space Theater:** The Space Museum is showing several films throughout this month:

■ 'Ring of Fire' - powerful portrayal of people and volcanoes of the Pacific Rim.

■ 'Through the Eye of Hubble' - new multi-media planetarium show.

■ 'Blue Planet' - OMNIMAX space film about Earth and its imperiled environment.

■ 'Pink Floyd: The Wall' - laser show featuring music from two Pink Floyd Albums.

■ 'The Doors' - All-new laser show featuring some of the Doors greatest hits.

The Space Center is located in Balboa Park, San Diego. 238-1233

**Ascent of Man:** Jacob Bronowski's film series is present at the Salk Institutes, San Diego, through November. 543-5757.

## Comedy:

**Comedy Nite:** North Country's own comedy hot spot features

Great Scott, Benny Ricardo and Butch Fisco tonight and throughout the week. Upcoming events include:

■ Sept. 10-15 - Denny Johnson, Lisa Trembly, Steve Hice

■ Sept. 17-22 - Fred Freenlee, Larry Omaha, Tish Ward

Comedy Nite is located at 2216 El Camino Real, Oceanside. 757-2177

**Comedy Isle:** Upcoming comedians include:

■ Sept. 4-8 - Steve McGrew

■ Sept. 11-15 - Jonathan Katz

■ Sept. 18-22 - Mike Ferrucci

Comedy Isle is located at the Bahia Resort Hotel, San Diego. 488-6872

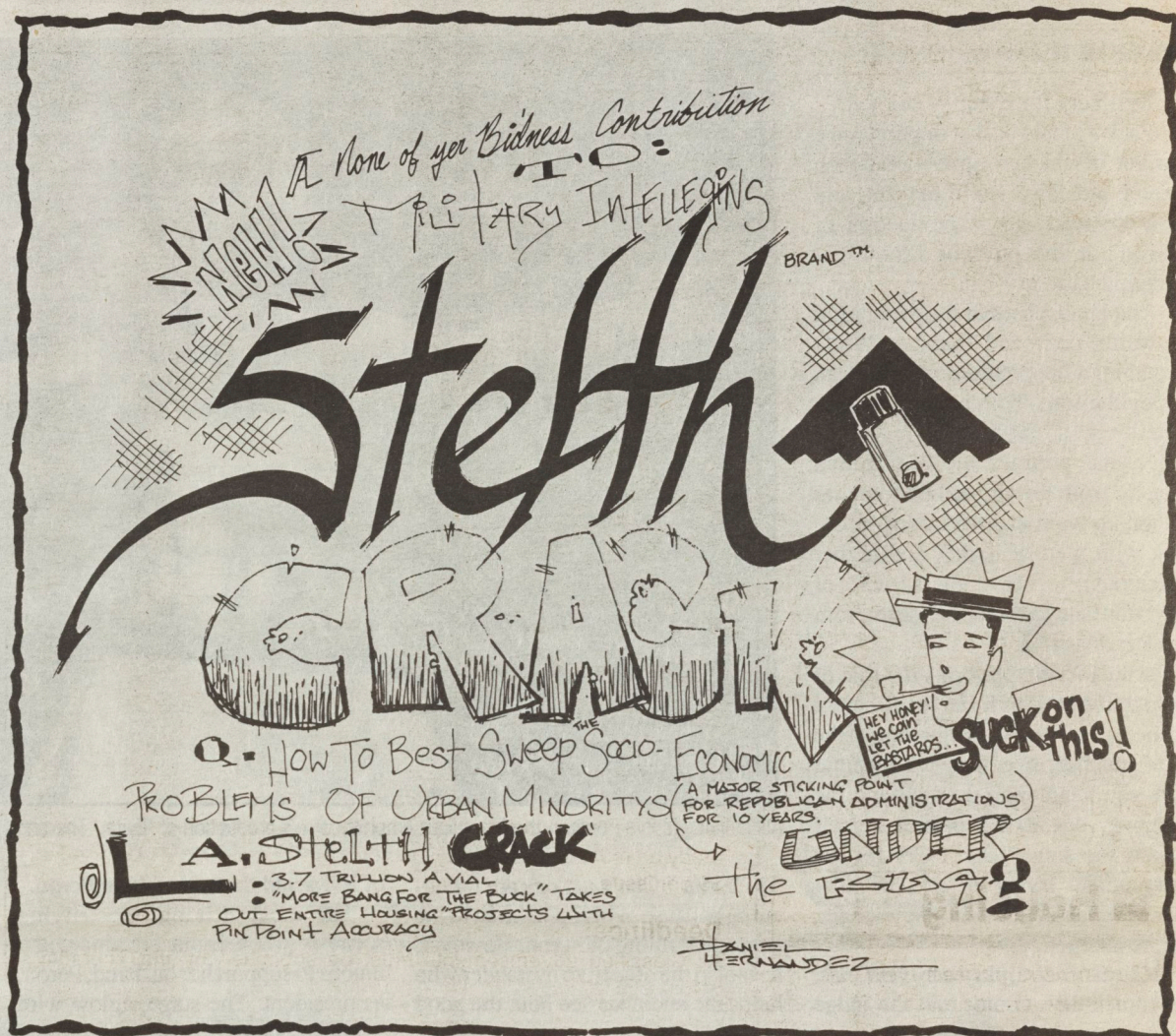
## Extra

**Del Mar Horse Races:** Through Sept. 11 at the Del Mar Fair Grounds. 296-1141/481-1207

## Send Calendar submissions to:

Pioneer  
CSU San Marcos  
820 Los Vallecitos Blvd.  
San Marcos, CA 92096

## NONE OF YOUR BUSINESS



## The symbol of the future

PIONEER's logo stands alone as a representative of what is to come for the university, the city of San Marcos, and the entire North County. The type style depicts something futuristic while the letter 'P' doubles as a question mark; those questions of college plans, student activities, academic development, new classes are answered in PIONEER.

Join PIONEER and the university in starting tomorrow's dreams; come aboard with a staff that shows different angles to covering news.

**738-0666**

## FIRE

CONTINUED FROM PAGE B11

where more than three-fourths of the world's active volcanoes are located.

In August of last year, the "Ring of Fire" crew started filming geologists monitoring the activity of Mount St. Helens. Several weeks later, without warning, there was an explosion. Ash and steam shot 25,000 feet into the sky.

As one geologist commented, "It could ruin your whole day."

The close calls while filming "Ring of Fire" were all in a day's work for the dedicated film crews, but they resulted in some of the most extraordinary volcano sequences ever filmed.

Spectacular volcanic eruptions show the process that both enriches and destroys the lives of those living there.

Including Mount St. Helens, the film shows footage of Navidad in Chile, Sakurajima in Japan and Mount Merapi in Indonesia.

Varied scenes of humanity from around the Ring of Fire show the many ways the human spirit triumphs when confronted with imminent catastrophe - from one culture's practice of volcanic worship to a highly

technological society's development of seismic prediction methods.

"Part of the human condition is to live constantly poised between life and death, and there's no more direct evidence for that than the way these cultures have adapted to life on the Rim," Kirsch said.

As plumes of ash explode into the sky, viewers will witness the birth of a new volcano in southern Chile.

The film takes audiences to the annual evacuation drill held on the Japanese volcanic island of Sakurajima, on the anniversary of the eruption of 1914. This volcano is still active, menacing the 7,000 people of Sakurajima with frequent ashfalls and the danger of more serious eruptions.

Other scenes transport viewers to the edge of the fiery lava lake in Hawaii and to Tokyo and San Francisco, where the risk of earthquakes profoundly impacts life.

Admission is \$5.50 for adults, \$4 for senior citizens and \$3 for children; tickets include entrance into all shows and the Science Center, where more than 60 hands-on exhibits allow for exploration of the principles of science.

The film screens daily and continues through October. For show times and other information, call the Space Theater at 238-1168.



# CLASSIFIED

B15

## ■ For Sale

'58 CORVETTE. Perfect condition. Silver. Convertible. \$25,000. Call 434-7634.

'89 VW Fox GL. 4-dr, 5-spd., AM/FM stereo cass., red, low miles, Mint Cond. B/O 759-0253

12' Burmese Python. Female. Breeding size. All reasonable offers considered. 759-0253

Mac Ilcx. 5/40. 13" color monitor. Stylewriter and/or Imagewriter. Make offer. 720-0372, Ken. 🍏

Antique English Oak Table with four chairs. 753-6419

DRUM SET \$425, value \$1000. Yamaha. 5 drums, 2 cymbals, incl. all travel cases. 744-7959

SOFAS FOR SALE: One Beige Corduroy, \$150 - One Seafoam-Green, \$325. Also electric stove, \$75. Call Cathy, 728-5939.

## ■ Housing

Roommate wanted. New 4 bdrm home in O'side/Vista. Private room, bth, phn, w/d. Non-smkr. \$350 + share util. 599-3235.

Single-wide Mobile Home, 1 bdrm, Esc. park, desperate. Must Sell Now. \$12,000. 741-6193.

Beautiful Poway Home for sale. 4bd/2Ba, 2 car garage, lots of upgrades. Best priced home in area. \$167,500. 579-0388 Francine

FOR SALE: 1 Bedroom Condo. Nice kitchen dining room, fireplace in living room. All rooms large. Balcony, \$74,000. Bob, agent, ERA-PMI Realty. 591-7502

ROOMMATE WANTED: Christian female, non-smoker, \$250/mo. \$150 deposit. Own bed/bath. Equal share of com-mon areas. Senna, 714-728-0705 leave message. Available now.

AVAILABLE: Excellent Community Association. Koi Ponds, Pool, Spa. Three Bedroom, 2-1/2 Bath. Family Room, 1636 sq. ft. Easy Commute. \$149,900 Bob, agent, ERA-PMI Realty. 591-7502

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All Classified Ads must be prepaid.

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■ LARGE TYPE: Any type exceeding the normal classified ad size will be billed at \$1:00 per line, per issue. The maximum type height is 1". This rate is for both student and non-student advertisers.

■ LOGOS: Any advertiser may use its logo in a classified ad. Camera-ready art must be supplied by the advertiser. Each logo will be billed at \$5 per issue.

### Deadlines:

All Classified advertisements must be submitted by the Thursday before publication.

Pioneer reserves the right to edit, refuse or reject any Classified ad at any time. Pioneer reserves the right to classify, index or position ads. Liability for errors on Pioneer's part shall not exceed the cost of the space occupied by the error.

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POSITION OPEN at Nat. Univ. bookstore. Store Supervisor: Customer Service, Cash Management, Some Accounting Exp. necc. Karen, 945-3774

GRADUATING SOON? Contact Career Planning Placement, Bldg. 800 next to student lounge about Career Fairs, on-campus recruitment and Workshops. Don't delay. Do it today! FIRST CAREER FAIR IS SEPT. 12

Advertise in Classifieds. 738-0666

🍷 SHOW YOUR SCHOOL SPIRIT: Volunteers needed to help with Cal State San Marcos' first International Cultural Fair, Oct. 27. Leave information at the Vice President of Student Services Office in Bldg. 125.

## ■ Employment

PROJECT POSITIVE IMAGE ... Effective Interviewing work-shop. Wed., Sept. 18, noon-1. Contact Career Planning and Placement for location.

Volunteer Writers Needed: Join the staff of Pioneer. It's Fun and Exciting. Call Larry 738-0666.

📝 GET IT IN WRITING. Resume Writing Workshop. Tues, Sept. 10, 12:30-1:30. Contact Career Planning and Placement for location. 📝

Gain hands-on experience in advertising by joining the staff of Pioneer! Call Jon 738-0666.

HOUSE CLEANER. \$10/hour if experienced. 1 day a week, min. of 4 hours. El Cajon. 579-0388.

WANTED: Students to sell year-book advertisements. COMMISSION basis. For applications, see Linda in Student Affairs office.

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Jacque Tenge, 727-4141

History tutor looking for people to tutor in the EOPS program. Contact Patricia in EOPS office.

WORD PROCESSING: Any typed assignment, fast turn around, competitive rates, pick-up & delivery. Ashton's Business Management Services, 727-9688

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LETTER ARRANGER. Word Processing Service - academic/business/personal. Brenda Brubaker, 738-2634.

## ■ Personals & Announcements

HELLO & Welcome back fellow classmates - from the Parker Foundation.

🔥 STRESSED OUT? Learn how to manage your life Thurs., Sept. 5, noon - 1 or Fri., Sept. 13, 1-2. Stress Management Workshop. Contact Career Planning and Placement for locations.

To All CSUSM Students: Do you like to sing? The following is a list of sing-a-long locations: Mission Inn, SM, Starmakers, Sun. 8-12; Valley Fort Rest., Vta, Mon, Tues, Wed, Weekends, 7:30-close. Vista Ent. Ctr., Wed. 7-12, Fri & Sat 9-close; Ringers, Bonsall, Thurs. 9-12.

## WATCH FOR TUKUT

COMING SOON

RE-ENTRY WOMEN! If you are interested in beginning an evening support group for re-entry women, please contact Sandy Kuchler, Director of Student Developmental Services, 752-4935.

🔍 GET A CLUE!! Confused ... lost in class already? Note Taking workshops scheduled Fri, Sept. 6, 11-noon, Mon. Sept. 9, noon-1. Contact Career Planning and Placement for locations.

## ■ Personals & Announcements

Hey CSUSM Students: Get Ready for a Cool Year ... From Fred

Susan: Hope Your Ad Goes Well: 36 units and a wake-up.

♥ Love Jim

Roller Blading: Interested in joining other CSUSM students in this exciting new sport - after school, during break, week-ends? Call Kelly at 944-7727 or Tammie at 632-1380

The Fix Man got hitched!!!!

Max, you will never thwart my evil plan - Red

Hi Babe ... Had a wonderful summer. will see you in December. ♥ Love Debbie

🔗 Entries, Entries, Entries. Prose, poetry or art for CSUSM Literary Journal. Submit to Carol Bonomo in Pres. Office. Call 941-4233 for more info.

♥ ♥ ♥

New Cal State San Marcos Baby! Lauren Nicole Scanlon born Mother's Day, May 12, 1991, 7lbs., 9oz. to Patrick and Charis.

♥ ♥ ♥

Dear Beth: Welcome Back. I missed you. I'm looking forward to spending time with you this semester. God bless you. Love Laura.

To the wife ♥. Wish summer wasn't over, but it's gonna be worth it when I'm the great American author. Can't wait for baby. ♥ L.B. ♥

Hi to all my buddies (Cindy, Mary P, Mary F, Penny, James, David, and the rest). Here we go again! Are we ready, set, go? Through the insanity, we will gain clarity! See you in the library. Steffanie T.

TO ALL YOU OBSESSIVE RUNNERS: Anyone interested in group workouts, unorganized fun runs, watch for info/sign-up sheet that will be located in the student lounge on the carpet wall.

Welcome Back to my Gang DJ, EP, JK from MP.

To Len and Joy ♥ Congratulations and best wishes from all the students in the College of Business.

To Gloria & Fred ☼ Have Fun in your new house! From your son.



# Baby your car

What your neighbors think:

"Service great! Help very polite."

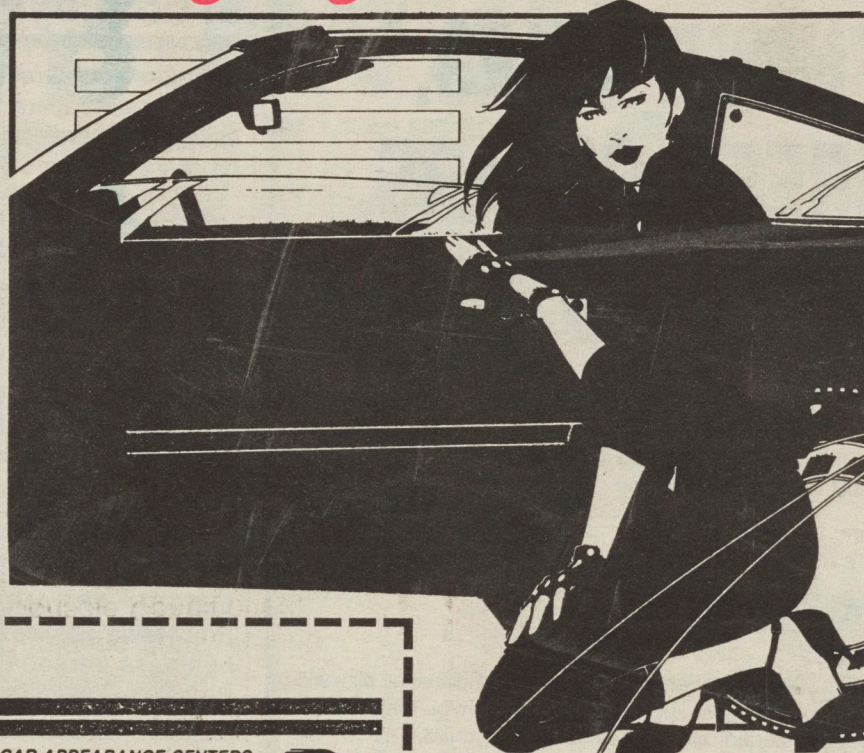
Jackie Behrhorst, Leucadia

"Great Wash & Detail."

Roy Ward, Carlsbad

"Excellent service and very polite."

Margaret Hardison, San Marcos



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**Everyday**  
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CAR APPEARANCE CENTERS

## MINI DETAIL

**Includes:** Wash vehicle, Clean Wheels, Hub Caps, Whitewalls. Vehicle Lightly Polished, Then Applying A Hard Coat of Carnuba Wax on Painted Surface. All Chrome Polished, Rubber Conditioned. Interiors and Trunk Vacuumed. Dash and Console Conditioned, Clean Glass Inside and Out.

NOW ONLY

**\$59.95** SATISFACTION GUARANTEED!

VALID WITH COUPON. ONE COUPON PER CUSTOMER. NOT VALID WITH ANY OTHER OFFER. EXPIRES 9-30-91. 840

SAVE  
\$3.00

**FREE WAX**

**FULL SERVICE TOUCHLESS® WASH**

**\$5.99** \$7.99 Value

Includes interior vacuum, windows in & out. Free foam wax. VALID WITH COUPON. ONE COUPON PER CUSTOMER. NOT VALID WITH ANY OTHER OFFER. EXPIRES 9-30-91. 841

SAVE  
\$12.00

**DELUXE TOUCHLESS® WASH**

**\$9.95** \$21.95 Value

Includes Ploysealant Clear Coat, Foamy Wheel Bright, Undercarriage Wash. Undersealant, Armor All All Tires, Air Freshner. VALID WITH COUPON. ONE COUPON PER CUSTOMER. NOT VALID WITH ANY OTHER OFFER. EXPIRES 9-30-91. 842

SAVE  
\$6.00

**FREE CAR WASH**

WITH ON-LINE HANDWAX ONLY **\$19.99**

Blue Coral Wax Applied, Ask Sales Person for Detail. VALID WITH COUPON. ONE COUPON PER CUSTOMER. NOT VALID WITH ANY OTHER OFFER. EXPIRES 9-30-91. 843

**TOUCHLESS®**  
**CAR WASH**  
**NO CLOTHS - NO BRUSHES**



SENIOR  
CITIZEN  
\$100 OFF  
EVERYDAY!  
not valid w/any other offer

In the Grand Marcos Auto Center Off 78 Freeway  
**740 W. San Marcos Blvd.**  
**San Marcos**  
**591-0404**

OPEN  
7:30 A.M. - 7:00 P.M.  
MONDAY-SUNDAY

**Mobil®**  
FULL SERVICE GAS AT SELF-HELP  
PRICES CASH OR CREDIT SAME PRICE

