

New Mexico Tech appoints three new faculty members

by George Zamora
PIO REPORTER

New Mexico Tech's faculty ranks recently were increased with the addition of three new members.

Dr. Laurel Goodwin was appointed to the full-time position of assistant professor of geology at Tech.

Goodwin received her Ph.D. degree in geology, as well as her master's degree in geology, from the University of California at Berkeley. She received her bachelor's degree in geology, with highest distinction, from the University of Maine in Orono.

Goodwin's research interests include her continuing work on various topics related to structural geology and "metamorphic petrology," or how rocks change in response to temperature and pressure. The course she teaches this semester is Metamorphic Petrology.

Beginning with New Mexico Tech's next fall semester, Goodwin plans on teaching a class dealing with current

topics in metamorphism and deformation, as well as introductory and advanced courses in structural geology, which she describes as "using Earth's structures to determine deformation histories."

Prior to arriving at New Mexico Tech, Goodwin was a postdoctoral fellow at the University of New Brunswick at Fredericton, Canada, where she conducted detailed mapping and structural analysis of certain areas in the Newfoundland Appalachians.

Goodwin says that her initial impressions of New Mexico Tech have all been positive. "The people who work here at Tech are all remarkably friendly, helpful, and efficient," she notes.

Goodwin attributes her recent appointment to Tech's faculty to "being at the right place at the right time," and says she looks forward to interacting with other New Mexico geologists.

Goodwin lists active memberships in the Geological Society of America, the American Geophysical Union, and the Atlantic Geoscience Society.

Dr. Geir Håreland is the newest assistant professor of petroleum engineering at New Mexico Tech.

Håreland recently received his Ph.D. degree in mechanical engineering from Oklahoma State University in Stillwater and graduated with a master's degree in petroleum engineering from Oklahoma's University of Tulsa. He received his bachelor's degree in mechanical engineering from the University of Minnesota in Minneapolis.

Håreland's research interests include developing and testing various types of computer models used in drilling projects conducted on oil and gas wells. The courses he teaches this semester are Drilling Engineering and Advanced Drilling Mechanics.

Prior to arriving at New Mexico Tech, Håreland worked as a consultant at Amoco Production Company's Tulsa Research Center where he developed and tested various computer models of drill bit performance and field tested and

evaluated different hydraulic models.

Håreland holds patents on a method of predicting drill bit performance and on a tool which increases production rates in horizontal or near-horizontal oil and gas wells. He recently applied for a patent on a new method for using drilling parameters to predict stresses in drilled earth formations during normal drilling operations.

"I'm looking forward to continuing my research in drilling areas while I'm here at New Mexico Tech," Håreland says, "and I am also hoping to expand my research to include production."

Håreland, who is a native of Oslo, Norway, says he particularly enjoys skiing here in New Mexico and hopes to later spend some of his leisure time golfing, fishing, and pursuing outdoor activities around the state.

Håreland is a member of the Society of Petroleum Engineers.

(Look for Paydirt's article on Dr. David B. Wing elsewhere in this issue.)

Elections to be held soon

by Eric Wagoner
SA CORRESPONDANT

The middle of the Spring semester is quickly approaching, and with that comes Student Association elections. The Spring elections are the most important of the year because up for grabs are the offices of SA President, SA Vice-President, and at least ten Senator seats. In addition to the offices, at least one constitutional amendment will be on the ballot.

The elections are scheduled to be held on Thursday, March 26, 1992 in the SUB, and will be run by the SA Supreme Court. In order to be placed on the ballot, anyone running for office must fill out the short Declaration of Candidacy Form, which can be found at either Student Services or the SA Office in the SAC, and return to either location by 5 p.m. on Thursday, March 19.

To be eligible for candidacy a student must:

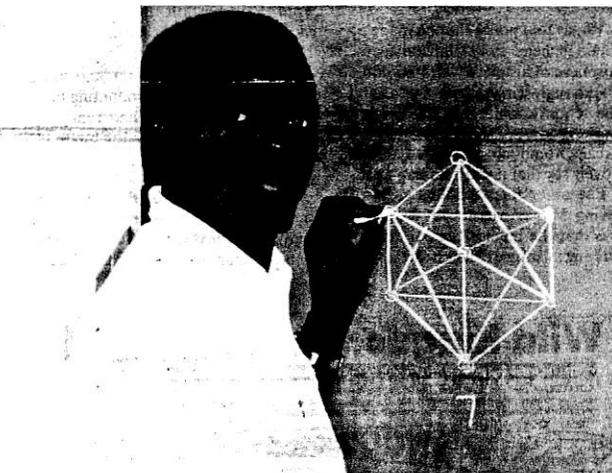
- Be members in good standing of the

Student Association (must have paid the Student Activity Fee),

- Not be under Academic Probation,
- Not be under Disciplinary Probation under the Supreme Court.

In addition, candidates for the offices of President and Vice-President must be "in good standing in all respects for purposes of both candidacy and holding office." Also, no one may hold more than one position for the following: President, Vice-President, Senator, Secretary, Treasurer, or Supreme Court Justice. All of these requirements were taken from the Declaration of Candidacy Forms prepared by Vice-President Amy Koerner from the SA Constitution.

So, if you have always thought that the SA was doing everything wrong, and that if given the chance you would show them a thing or two, take a minute of your time and go declare your candidacy for President, Vice-President, or Senator. Seize power. Show everyone how the SA should really be run.



Dr. Curtiss Barefoot working a few difficult problems for his class. Photo by George Zamora.

Barefoot receives research grant

by George Zamora
PIO REPORTER

Dr. Curtiss A. Barefoot, associate professor of mathematics at New Mexico Tech, recently was awarded a \$155,000 research grant by the National Science Foundation (NSF) for a three-year study of topics related to certain types of graphs used by both mathematicians and computer scientists.

Barefoot's research project, entitled "4-connected Halin Graphs and Related Topics," is funded through the NSF's Mathematical Sciences Division. During the past two decades, Halin graphs have attracted an increasing amount of attention from both computer scientists and mathematicians who are interested in graph theory.

"Computer scientists have expressed a lot of interest in these type of graphs," Barefoot says. "But, since I'm a mathematician, when I study these graphs I think of the mathematical theory behind them and don't think too much about the practical applications."

Barefoot will use New Mexico Tech

facilities to conduct his research on Halin graphs, including SUN workstations at Tech's Computer Center. He will be assisted during his three-year study by a graduate student.

Barefoot, who is originally from Baltimore, received a master's of science degree in mathematics from New Mexico Tech in 1977 and a doctoral degree in mathematics from the University of New Mexico in 1980. He returned to New Mexico Tech, this time as a mathematics faculty member, in 1986.

"I've taught a wide range of courses during my stay here at Tech," Barefoot says. "And I'm just now beginning to settle down to teaching courses which are more in line with my specialty, which is combinatorics and graph theory."

Most recently, Barefoot has taught courses in combinatorics and graph theory, linear algebra, mathematical foundations, and abstract algebra, which he describes as "probably my favorite course to teach."

Barefoot and his wife, Olga, reside in Albuquerque.

Dr. Wing joins Biology staff

by Marjorie Ward
PAYDIRT STAFF REPORTER

There's a new face in the Biology Department this spring. That face belongs to Dr. David Wing. Dr. Wing takes over the vacancy left by Dr. David Shortess, who left at the end of last semester.

Dr. Wing comes to Tech fresh from a two year stint doing research on plant molecular biology in the Japanese city of Tsukuba (pronounced "scuba"). Tsukuba is a small town, much like an American suburb, that Dr. Wing referred to as the "science city." Before his time in Japan, Dr. Wing worked on plant molecular biology in Germany. Dr. Wing received his undergraduate and his graduate degrees from Columbia University.

Currently, Dr. Wing is teaching general botany. In addition, he is

responsible for developing a plant molecular biology research laboratory at Tech. Starting the lab is proving to be a challenge, because inexpensive laboratory equipment is difficult to find. Also, Dr. Wing is busy trying to find a plant on which to base his research. He is investigating Southwestern plants, and hopes to discover a plant well suited to the Socorro climate.

Dr. Wing currently lives in Socorro, and describes it as "life supporting." In his free time, he likes to play basketball and chess. When asked if he planned to fill Dr. Thomas Lynch's vacated shoes on the faculty basketball team, Dr. Wing commented that he was about "two feet too short."

Dr. Wing seems to like Tech so far, and thinks that the students are great and that the campus is lovely. He hopes that his stay at Tech will be a long one.

Science Olympiad brings students to Tech Campus

by Nik Chawla
PAYDIRT STAFF REPORTER

About 20 high schools and 30 junior high schools from across the state invaded the Tech campus last Saturday to participate in the state Science Olympiad. Unlike the Science Fair, where individuals exhibit their own projects, the Science Olympiad is concerned with developing team spirit, fair play, and sportsmanship in a variety of science related events.

In the Pentathlon, four team members went through a mini-obstacle course. Each student had to first com-

plete an athletic obstacle, such as throwing a football through a hoop or stepping through a series of tires, and an academic obstacle, which consists of answering questions of decreasing difficulty in 5 subject areas: environmental science, chemistry, physics, earth and space, and biology. As if this were not enough, the competitors had to carry a spoon with a ping-pong ball through all the obstacles. Naturally, some teams could not answer even the easiest question in their respective subject area, so they were greeted with a question like "In what state is the University of Missouri located?" or

"What is the color of a yellow bus?"

Other events included Metric Estimation where students estimated various quantities in the SI system of units, and Egg Drop which consisted of building a device to successfully catch an egg dropped from the top of MSEC.

In the junior high division, San Miguel school, a catholic school here in Socorro, took 1st place, making the 3rd year in a row that the school has won the state championship and gone to the National Science Olympiad. In the high school division, the Armand Hammer World College, which consists of high

school seniors and college freshmen, won the competition.

The contest did not just bring schools from across the state to compete in challenging science activities. It promoted the camaraderie and team spirit associated with the Olympics, and it is this feeling that makes this event special. With the help of some corporate sponsors this year, enough money was available to award medals from 1st through 6th place and ribbons from 7th to 10th making the pool of winners even more significant. Whether a medal or ribbon was won or not, all participants went home winners.

Head was a hunk. . . of roast beef

CP PRESS RELEASE

University of Illinois at Chicago police say they've solved the mystery of an art exhibit that students say was the head of a human cadaver wrapped in plastic.

Artist Rudy Vargas originally claimed that he had stolen the head from the medical school. But, Lt. John Otomo, head of UIC investigations, said he is satisfied that Vargas' later explanation is actually the truth. Vargas now says his October exhibit was really a head that he carved out of roast beef.

Vargas told police that he made up the human head story "to add to the atmosphere of his piece," Otomo said.

Although witnesses of the exhibit at the school's undergraduate art gallery said they were convinced the head was real, Otomo said that most couldn't positively say that it was a human head.

The other reason police gave for believing Vargas' roast beef explanation is that the medical school did not report any missing cadaver heads.

Police Blotter

by Toby Click
CAMPUS POLICE CORRESPONDANT

On February 7, there was a two vehicle accident at the Weir Hall parking lot. There were no reported injuries, and no citations were issued.

On February 10, a campus officer discovered that the elevator in Cramer Hall had been vandalized with scratches and graffiti. A warrant was turned in to the Physical

On February 11, a briefcase left behind at the Library was discovered missing. A report was made.

On February 13, three juveniles were caught discharging a high-powered BB gun on the 17th fairway vicinity. The gun was taken by police to be picked up by the parents.

On February 16, an unknown person or persons cut the mounting bracket for a high lift jack and removed it from a vehicle parked in the South Hall parking lot.

On February 22, a fight was reported in progress at the gymnasium, but when police arrived, one of the individuals involved had left. A report and voluntary statements were filed.



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Wild Kingdom

By Anthony Rubino, Jr.

NOTE: The following is funnier if it is read in the voice of Captain James T. Kirk of the Starship, Enterprise.
COLLEGE—A place to drink beer. These are the voyages of the college student. Their four year mission: to explore strange new worlds, to sleep late, do drugs, and blow off studying without hesitation. To boldly eat the cafeteria food even though it makes them sick with diarrhea **BREK! STINKY! YUM!!** Anthony Rubino, Jr. 1991

1st Semester, Junior Yr.
After yet another summer as Head Fry Chef at McDonalds, you return. You take a few drunken moments to choose a career and declare a major, then move off campus into a group house, so that you can party more efficiently.

2nd Semester, Junior Yr.
Suddenly, you identify that feeling of doom from a year ago. In the very near future, college will actually come to an end and you will be faced with reality. **OH THE HORROR!** You let out a whimper, which turns into a scream. Then, you weep.

1st Semester, Senior Yr.
In a desperate attempt to prolong the inevitable, you switch majors. Amazingly, it doesn't work. So, you milk the time remaining for all it's worth.

Final Semester, Senior Yr.
You begin researching grad-schools in warm climates.

ASK MR. COLLEGE

Q: Dear Mr. College, A couple weeks ago you advised me to call my professor a "red fat bastard". As a result I've led the class. What the hell should I do?—**Assed**

A: Dear Assed, Beats me. Sorry about that, I was in a lousy mood that day.

Q: Dear Mr. College, People ignore me constantly when I talk, no one listens, it's like I don't exist. I can't take it anymore. I know you won't let me down. What should I do?—**S. C. S.**

A: Dear Mr. College, When I go home for summer vacation my parents treat me like a kid. They're always asking me where I'm going, and when I'll be back. It's un-cool. Any suggestions?—**Steamer**

A: Dear Steamer: Try this: Stay out really late and don't tell your parents where you are. When they question you, say, "hey, when I'm away at school you never know where I am. Why do you need to know now?" At the very least this will stun them, and give you time to jump in the car and go to the beach.

PAYDIRT

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Student upset by club funding requirements and lack of counselors for students

This letter was sent to "the" Student Association and a copy was sent to Paydirt.

As a fee paying member of the campus community, I have noticed two things this semester that I find troubling.

1. I realize that the process of awarding club funding is quite complicated, but I simply wanted to point out what could be a treacherous area: on the one hand, the SA cannot find a political group, but on the other hand, they are asking clubs to demonstrate their political actions as a basis for funding.

I thought the school, specifically the SA, already had a lobbying committee, and I find it disturbing that in order to qualify for SA funding, the clubs are strongly encouraged to pursue the political ends of school funding. For some clubs this is just not feasible, and is inappropriate. The student interest (those same students who pay fees, remember us?) is a Chinese Fencing club should be sufficient to qualify for at least some basic level of funding; they should not have to write letters extolling the virtues of Chinese Fencing as practiced at NM Tech to our state senators in order to be considered for funding.

That the mere existence of some clubs, such as the Black Awareness Association, and Gays and Friends, is a

political statement cannot be denied. However, not all clubs should be expected to live up to the achievement of others.

2. I also see a problem with the availability of school-affiliated counseling services. At the beginning of the semester I made what I thought were a series of appointments to see Judith Raymond, as is my right. However, when I arrived, I found that not only had I missed an appointment (my fault for not checking the date), but that no series had been scheduled, and the next available date to see the counselor was over a month later. My name was put on a waiting list (which appeared to be quiet long) in case anything opened up.

My question is, if our current counselor is so fully booked that month-prior bookings are the norm, then why don't we have an additional counselor? I don't think [I am] the only student who is unable to book crisis months in advance, based on when I can get in to see the counselor.

These are both things that would bear investigation by the Student Association, with results being disseminated to the student body via Paydirt.

Sincerely,
Carol J. Morgan

OPINION

Mail letters to: Paydirt, Box GG, Campus Station [Socorro, NM 87801]. Computer e-mail is also accepted at paydirt@nmt.edu. Letters are welcome from students, faculty, staff, and other concerned persons. All letters submitted for printing must include the author's name and telephone number, although names will be withheld on request. If the identity of the author cannot be verified, the letter will not be printed. Paydirt reserves the right to edit all letters, and to decide which letters are printed. Letters should primarily concern a current or recent incident or situation related to Tech. Letters regarding controversial, previously unprinted topics will not be printed in the last issue of any semester, in order to permit timely responses from other concerned individuals.

SA answers student's questions

This letter was sent to Carol Morgan and to Paydirt.

Dear Ms. Morgan:

Upon receiving a copy of your letter I feel it my duty to respond to what I see as a fundamental misunderstanding. First, it is true that the SA cannot fund a political group or political actions of a usually nonpolitical group. I believe that reasons for this are relatively obvious.

Second, and what is apparently not obvious to you, is that clubs are strongly encouraged to put Tech in a favorable light. By participating in community involvement activities, clubs often portray Tech as more than "just another college." Because of the large number of funded groups on campus, it is my belief that this positive public image can be reflected in Santa Fe. Although I can hardly consider this lobbying on the part of a club (for Tech), I do believe that

these actions "represent Tech favorably...to state legislators and other budget-controlling factions."

As to the somewhat unrelated topic of some kind of basic funding for clubs, I think that you will find that all clubs have the ability to represent Tech favorably, thereby eliminating the need for a basic funding. Whether they choose to use their ability or not is entirely something else. I also assume that your reference to a "Chinese Fencing Club" is either just a random example or a mistake as the only fencing club which has existed (had recognition) in the past three years was a Japanese Fencing Club. Either way, all clubs are still required to produce a quality budget (and be held accountable for their actions) in order to receive funding.

Sincerely,
Karl Tonander

Answers to some questions

This letter was sent to the Student Association and a copy was sent to Paydirt.

Thank you for replying so promptly. You were right in that I was attempting to refer to the Japanese Fencing Club: thank you for the correction.

No small part of my "fundamental misunderstanding" lies in the assumptions made with the aid of our Student Handbook. The section which describes the SA says that "the Senate is in charge of disbursing monies received from the Student Activity Fee account. This money goes to student clubs and organizations to aid in providing a better social life at Tech." (p 8, emphasis mine.)

I still fail to see how "representing Tech favorably" and "a better social life at Tech" must necessarily go hand in

hand by. The first suggests some ambassadorial efforts, while the second would seem to be concerned with internal "quality of life" issues. Perhaps the answer lies in the fact that the majority of the student body looks outside of Tech and Socorro to achieve that elusive "better social life," and thus the onus of "representing Tech favorably" falls squarely upon their shoulders, at least to the extent that they are using SA funding, or wish to in the future.

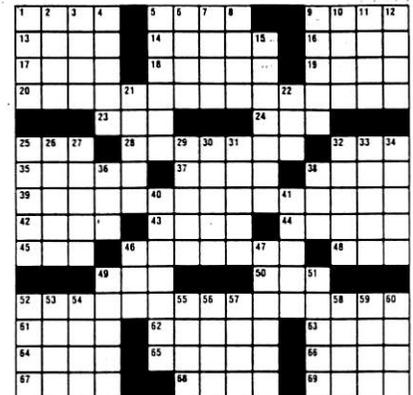
Again, thank you for attention to detail, and for clarification of what I am taking to be the official SA Finance Committee position on the issues addressed.

Sincerely,
Carol J. Morgan

THE Crossword

By Albert J. Klaus

- ACROSS
 1 Night flyers
 5 Giggly sound
 9 Custody
 13 Dismounted
 14 City in Japan
 16 Old
 17 Song refrain
 18 Tiberius' tongue
 19 No one
 20 St. George's lance did it
 23 River in Eng.
 24 Lamprey
 25 Not neg.
 28 Ornamental work
 32 Opponent
 35 Not as wet
 37 Guide
 38 Level
 39 David's sling-shot did it
 42 Lecher's look
 43 Russ. river
 44 Consent
 45 Before tea
 46 Secluded place



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- 48 Gool
 49 Distress signal
 50 After deductions
 52 Sparrow's arrow did it
 61 Vicinity
 62 Man-made fiber
 63 Memo
 64 War vehicle
 65 Fr. river
 66 Frosts
 67 Punta del
 68 Kitchen items
 69 Wagon
- DOWN
 1 Illegal pitcher motion
 2 Russ. range
 3 Cash drawer
 4 Trite
 5 Vise or tongs
 6 Coup d'
 7 "What — God wrought?"
- 8 Great lake
 9 Kiel is one
 10 Eager
 11 Divorce city
 12 Paradise
 15 Cook meat less thoroughly
 21 Additional
 22 Sp. king
 25 Become confused
 26 Liberate
 27 Flute-like instruments
 29 Nimble
 30 Chest wood
 31 Two under par
 32 Blaze up brightly
 33 Horse opera
 34 Anesthetic
 36 Always to poets
 38 Trifle
 40 Weld
 41 Subsequently
 46 Caviar stuff
 47 Foot joints

ANSWERS



- 49 Quench
 51 Quinine beverage
 52 "Kiss Me —"
 53 Cleopatra's maid
 54 Fasting period
- 55 Cut short
 56 — account (never)
 57 Penny
 58 — Raton, Fla.
 59 Roman road
 60 Cozy place

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Ever Get Somebody Totally Wasted?

Native American group dislikes team nicknames

by Geoff Boucher
CPS Special Correspondent

To most sports fans, it may seem like a simple, if not at times irritating, way to deride opposing teams, but to some Native Americans, the tomahawk cheer is more like a personal foul.

The cheer—which consists of a repeated karate chop motion and a war cry that could be straight from a Hollywood western—was invented by Florida State University students more than a decade ago, but reached its popularity this year among followers of the pennant-winning Atlanta Braves.

Native American activists protested the Braves fad, labeling the cheer an offensive stereotype that promotes the image of American Indians being savage.

Because they were in the World Series, the Braves controversy earned widespread media coverage, but American Indian Movement member Jan El-

liott said insulting Indians is nothing new to college or professional sports.

"It's just ridiculous," said Elliott, editor of *Indigenous Thoughts*, a national Native American newspaper. "Suppose people dressed up their mascots as Jews or Blacks or whatever. There would be a national outcry."

Nicknames such as the "Braves" evoke inaccurate visions of warlike cultures, while "Redskins" is obviously a racial pejorative, Elliott argues.

Of the 469 schools listed in the *American College Regalia Handbook*, more than two dozen have team names derived from Native American cultures, the most common moniker being simply "Indians."

One of those schools is Florida State, nicknamed the Seminoles, where games feature a mascot named after the tribe's 19-century leader, Chief Osceola. The mascot Osceola wears fearsome-looking warpaint and prowls the sideline

on horseback, often with a burning spear.

And, of course, his performance is accompanied by the crowd's enthusiastic tomahawk cheers.

"Everyone does it now, but we did it first—there's no doubt about it," said Gerry Gilmer, an FSU spokesman. Gilmer said campus officials were aware of the recent complaints from American Indian factions, but he said his school has no plans to discourage the cheer.

"We keep in very close touch with the Seminole tribe, and they haven't expressed any problem with the cheer," Gilmer said. "We aren't real interested in what the American Indian Movement says; it's the Seminoles who matter to us."

Another campus where officials cite concern for input from Native Americans on matters of nickname portrayal is Miami University in Ohio, said Richard Little, the school's Associate Vice-President.

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"In our case, we work very closely with the Miami Indian tribe to make sure we portray them in a dignified and proper manner," said Little, whose school nickname is the "Redskins."

Little said Miami University has signed three treaties with its namesake tribe since 1972, each an agreement that he said ensures the 1,300 tribe members that their heritage will not be treated capriciously.

The University keeps a tight rein on any merchandising that portrays the school's nickname and the tribe also provides input on the wardrobe and dances of the team mascot, Chief Miami.

"And we ask our fans not to do the tomahawk cheer, although, you know, some still do," Little said. "Overall, there's a lot of pride that goes both ways between the University and the tribe. I think the [Atlanta] Braves could learn something from us."

Recipe Corner

Interesting recipes from Tech Campus and around the world.

Arabian Apple Bean Pot

Serves 4

1 c large lima (butter) beans, soaked and cooked
2 med onions, sliced
2 med apples, sliced
1.5 tsp tumeric
.75 tsp nutmeg OR allspice
.75 tsp cinnamon
grd black pepper
plain yoghurt &/or chopped dried apricots for garnish

Saute onions in small amount of oil until golden. Add apple and spices. Saute briefly. Add beans with a little water. Heat through. Season to taste with pepper. Garnish with apricots and/or yoghurt.

Shyamala Parameswaran

serves 4

3 1/2 cups cashew nuts
2 T farina/fine sooji
1/2 cup ghee
1/2 cup water plus a little extra
1 cup sugar
2 T raisins soaked
pinch salt (optional)

Grind cashews into coarse paste with very little water. Heat ghee and fry farina until lightly browned. Mix with cashew nut paste.

Combine water and sugar. Boil together to make a thin, moderately sticky syrup. Slowly add the nut-farina paste to the hot syrup, stirring constantly. Gradually add remaining ghee, mixing thoroughly. Add raisins and salt. Serve hot.

Shahi Tukra

4 bread slices, cut 1-inch thick

1/3 cup ghee
1/4 t saffron
1 T warm water
1/2 cup sugar
1/4 cup water
1 cup evaporated milk
1 T chooped cashews
1 T chopped pistachios
1/4 t ground cardamom

A loaf of bread that is several days old is best for this dish. Trim crusts off bread. Smear some ghee to both sides of the bread slices and toast them in a pan till golden brown. Arrange bread in a flat, heatproof serving dish without any overlap. Set aside. Dissolve saffron in 1 T warm water and keep aside. Combine sugar and water and boil to make a

SEC to ban tobacco products

CP PRESS RELEASE

The Southeastern Conference has announced that it will ban the use of tobacco-related products at both conference and post-season tournament baseball games, the NCAA News reports.

The ban goes into effect this season, and gives umpires the power to eject any players or coaches who violate the rule after one warning.

SEC Commissioner Roy Kramer told the NCAA News that the conference adopted the measure after reviewing results of studies that show the adverse effects of using tobacco products, particularly chewing tobacco, which is popular among baseball players.

The NCAA has a policy against the use of tobacco products by both players and coaches during NCAA championship competitions.

thick syrup. Add milk and saffron. Stir thoroughly and heat to boiling point. Pour over bread slices. Garnish with chopped nuts and cardamom.

from the desk of Tom Jones

Ramblings from the viewpoint of somebody who's been there and isn't quite sure why.

Socorro's Stature

Gas station deficits, cookie prices, and the Forgotten Time Zone

You may have noticed that Socorro has limited influence in the world at large. You've probably never noticed any major US Presidential candidates campaigning here; while campaigns are well under way in certain states, a survey of ten New Mexico-registered voters revealed that *none* knew when the upcoming primary/caucus is. Unless you're looking for radio telescopes or colleges that own mountains, you're going to miss Socorro.

But there are some things that cannot be missed about Socorro; its 22 modern stations, 20 restaurants, 6 motels, and 1 campground, to name a few. But are there? In a recent expedition, Special Agent Sean Kelly and This Reporter went and counted stations and restaurants; we found a surplus of three restaurants (23), and, ignoring those that had gone out of business years ago, a deficit of 7 gas stations (15).

It turns out that the signs proclaiming the Socorro statistics were erected in 1988, and have not been changed since. After a record low six phone calls, I talked to a gentleman in Santa Fe who stated that the signs statewide are changed "relatively infrequently," only at the request of the local chamber of commerce. When asked about the definition of a "modern" station, he replied that any station is modern, "as long as it sells gasoline or diesel fuel."

One of the results of being in New Mexico is that we are in the Forgotten Time Zone. Watch network TV, and they tell you that a particular show airs at "8 pm, 7 pm central," meaning that it airs at 8:00 in New York and Los Angeles, 7:00 in Chicago, and they don't care when in Albuquerque. Prime time starts at 8:00 in the East, then at 7:00 in Central, so they can show things at the exact same time as in the East, and then at 8:00 again in Pacific, because they want them to have the same prime time as in the East. Mountain time is stuck on its own, at 7:00, two true hours after Eastern and Central, and one true hour before Pacific. The networks are usually pretty good about showing things at the same clock time in Mountain as Central. Live programs like network news are worse, because a new version is often made for the Pacific time zone, we are the only time zone on the continent to get recorded news that's an hour old before it starts, although KOAT-9 tells me that updates are made for nights when

updates come in during this time.

But the situation here is a real mess on cable. Some stations show everywhere at the same time; CNN, for instance, shows everybody on the planet the same stuff at the same time. Many other cable stations have two signals—eastern, which has "prime" time at 8:00 pm Eastern (=7:00 Central), and western, which has prime time at 8:00 pm Pacific. Mountain cable systems have a choice between these two signals; choose eastern and be two hours late, or choose western and be one hour early. Local cable systems (which everyone knows always work in the customers' interest) haven't even standardized their own signals; consult the Albuquerque cable channel listings and you'll see a myriad of asterisks, indicating "programs air three hours later than shown," meaning that this channel is shown in the TV listing as the eastern feed, but your cable company may show you the western feed for no apparent reason. Between all these factors, Mountain time zone residents can't get program guides with the correct times in them. The reason, of course, is that our time zone is the least populated, which in the Real World, where money equals power, renders us the Forgotten Time Zone.

Socorro is the only place where a grocery store can get away with stating "Everyday lower prices" in big fat letters everywhere, yet simultaneously gouge consumers. At both Supermart and Furr's, for instance, Pillsbury cookie dough labeled \$1.99 by the manufacturer has been priced more than \$2.50. At Furr's, they even had the gall to write "Everyday lower price" on the \$2.67 price tag, even though that price was 33% higher than the suggested retail printed on the package mere inches above. If 33% higher than normal is "everyday lower," I fear the day Furr's changes to "everyday higher prices."

But Tech has its own interesting practices; most colleges do not shut down from noon to 1:00 pm.

The Tech library states that it is open until 11:00 pm weeknights, but that's a lie. You can't get in after 10:45. Webster's #2 definition of open is "being in a position or arrangement to permit passage: not shut or locked." Thus, the library is closed at 10:45, but they like to claim they are open longer because it sounds more impressive. As late as the 1970s, the library was open 24 hours, but that was before Tech students learned

how to steal things.

New Mexicans like to stockpile stories about being told they are not in the United States; "You'll need international postage on that," and so on. They like to point out when other people mess up their geographic names.

But Socorro doesn't even know its own name. At Supermart, the fresh-baked French bread (which is, incidentally, quite tasty) proclaims that it comes from "Secora, NM 87801." If we who live here can't get the name of the town right, we can't expect outsiders to.

New Mexico's road system also leaves something to desire—like uniformity. As of a few weeks ago, there was a sign between Socorro and Bernardo that read "I-25 North, US-60 North." While I-25 most certainly goes from North to South, US-60 most certainly does not, starting in Virginia Beach, VA, and ending somewhere near Santa Monica, California. There is only one place in this state where two interstates cross, in Albuquerque, and it has a name—the "Big I."

The only thing that is uniform about Socorro's roads is that they are all covered with potholes deep enough to stop tanks.

Socorro has appeared on MTV—at least in name. There's one spot where they list the word for "help" in about twenty languages, and for 1/30 of a second, the word "Socorro" is shown on national cable.

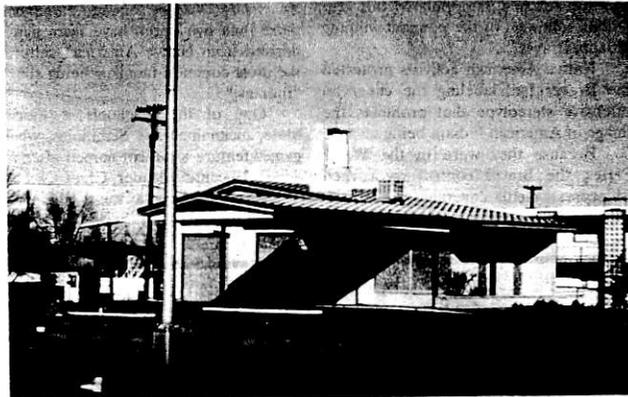
The AAA guidebook to New Mexico states that Socorro was once the

largest town in the state—although apparently this was just a rumor created as a joke by a former Tech President during a speech. Maybe one day Socorro will attain this fictitious status; perhaps extragalactic aliens will land at the VLA and build a huge city.

While Socorro's stature is such that you will probably never see the Olympics held here, the town certainly has its own characteristics that make it a unique place nonetheless.

Correction: In the last issue, I stated that Turtle Bay does not have any turtles. Karl Tonander, an employee of Macey Center, tells me that there really are turtles. I apologize to anyone who sustained any damage as a result of this error.

Workman Second Floors: As promised, here are the twelve second levels that I know of: 1) the Bureau of Mines; 2) the Bullpen in the South hallway; 3) the room across the hallway from the bullpen 4) Upper Lower Slobovia near the Mineral Museum; 5) the Instrument Room storage West of the Computer Center; 6) the Machine Shop across the hall from the Instrument Room; 7) the storage area south of the Machine Shop; 8) the CETR/Physics offices in the Northeast corner; 9) the tower; 10) the room on the South side of the North hallway; 11) the room on the North side of the North hallway; and 12) TERA in the Northwest corner. There are probably others, but they are well enough hidden that I couldn't find them.



Even counting *this* facility as one of the "modern stations," the count is still less than the number displayed on the signs on Interstate 25. Photo by Tom Jones.

Spencer Green



OPINION

Editorials, Commentary, and Letters to the Editor

Mail letters to: *Paydirt*, Box GG, Campus Station [Socorro, NM 87801]. Computer e-mail is also accepted at paydirt@nmt.edu. Letters are welcome from students, faculty, staff, and other concerned persons. All letters submitted for printing *must* include the author's name and telephone number, although names will be withheld on request. If the identity of the author cannot be verified, the letter will not be printed. *Paydirt* reserves the right to edit all letters, and to decide which letters are printed. Letters should primarily concern a current or recent incident or situation related to Tech. Letters regarding controversial, previously unprinted topics will not be printed in the last issue of any semester, in order to permit timely responses from other concerned individuals.

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Farewell Dr. Lomanitz, you will be missed

Dr. Ross Lomanitz, Professor Emeritus of Physics, was forced to retire this semester because he turned 70. Lomanitz fought it, the Student Association fought it, and the student body fought it. At the beginning of this semester, Lomanitz picked up his last pay-check and is gone.

I won't go into the politics involved. I only want everyone on Tech campus, Socorro, and the nation to know the history of this man. Besides, by the time any ruling could be passed, it will be too late. A wonderful man and excellent teacher is already gone.

Though most of us may not know, Lomanitz originally started out as a chemist/mathematician hopeful, not a physicist. He first studied at the University of Oklahoma in Norman in 1936, and turned to physics only when the last available chemistry class, at 8:00am on Saturdays, was closed. He was then forced to take a physics class to fill his course load. Because of the physics professor and the interesting subject matter, he was hooked.

It appears that Lomanitz's interest in teaching began early. As an undergrad at the University of Oklahoma, Lomanitz tutored students for \$2.50 an hour. His simple approach, and good advice have helped many students over the years (myself being one).

From the University of Oklahoma, Lomanitz went on to grad school in 1940 at the University of California at Berkeley. There he received a teaching assistantship for \$650 a year. Though we may not think \$650 enough to pay for a semester

of school these days, Lomanitz believes that it was "quite sufficient for a single guy" back then.

At Berkely, Lomanitz encountered H. J. Oppenheimer, and had the privilege to work under his guidance. Unfortunately, Oppenheimer was the only theoretical physicist on staff at Berkely, and spent most of the week at Cal Tech. Once, Oppenheimer asked Lomanitz to edit a 15 page report and "look for errors." While discussing the paper, Oppenheimer asked Lomanitz if he would be interested in working on the subject of the paper, an electronic isotope separator that was used to glean U²³⁵ from U²³⁸. The new job would include a raise in pay and a chance to do research in physics. Lomanitz agreed.

Lomanitz was not so naive as to think that the isotope separator would be used for anything but the bomb, and he had many reservations about his involvement in the project. He also knew that the Nazis were probably working on the same project, and might reach their goal to take over the world if they were not stopped. (The world later discovered that the Nazis were far behind the Americans, and would not have been able to produce the bomb in such a short time.)

When Lomanitz left the University of Oklahoma to go to school in California, he discovered new social and political ideas. He encountered ACLU affiliate Harry Bridges, and Norman Thomas, President of the Union of Professional People in Emmeryville. Lomanitz supported the Federation of Architects, Chemists, and Technicians

union, and, hearing of all the good that could be done by collective bargaining, tried to form a union at the radiation lab. Unknown to the union supporters, the lab had been turned over to the jurisdiction of the military, and could never have a union.

Not long after Lomanitz became involved in union politics, his six month deferment from the military (for vital war work) came up for renewal. Unlike previous times, his deferment renewal was denied. Even though Oppenheimer tried to intervene and have Lomanitz reclassified, a few weeks later, Lomanitz went into the army.

After having served over two and a half years in Okinawa, Lomanitz thought that he would have to go on to fight the Japanese and Russians, but it was not to be. While Lomanitz's unit, the 96th Infantry, was preparing to invade Japan, they learned that the bomb had been dropped on the main island of Japan.

In 1946, Lomanitz went back to the University of California at Berkeley, and completed his degree. Later, his involvement in union politics caused him to be black-listed by members of the Un-American Activities Committee: Senator Joseph McCarthy and a bright new politician, Richard Nixon. Lomanitz was forced to leave a teaching position at Fisk University and from 1949 until 1960, Lomanitz was unable to teach at any college. During that time, Lomanitz had to find work elsewhere. He worked as a manual laborer in a paint factory, as a railroad worker, and at other jobs. Lomanitz believes that period was "a very

important part of my life," as he was able to learn that the common worker had many unique and insightful views on life.

By 1960 things had improved; Lomanitz was able to find a teaching position at Flitman College in Walla Walla, Washington. Though happy to have a job, Lomanitz was uncomfortable teaching in a liberal arts college, and began a letter writing campaign to locate a position in a technical school.

Eventually, Dr. D. J. Workman noticed Lomanitz, and asked him if he would be interested in teaching at Tech. Lomanitz had never heard of Tech, but readily agreed. Workman's plan was to build up the theoretical side of the Physics Department, and saw Lomanitz as the man for the job. Because Lomanitz had worked with Oppenheimer and received his PhD in physics while working with Feynmann, he was uniquely qualified.

Workman was not afraid of the possible problems he might have encountered by hiring a black-listed professor. Several years earlier, when Workman was approached by the CIA seeking Tech professors to spy in foreign countries, Workman quite clearly said no.

In 1988, Dr. Lomanitz received the Outstanding Teaching Award, and has been praised by his students for years. At the bottom of this editorial is a list of some of the comments he received on his teaching and course evaluation sheets for the two classes he taught last semester.

I can only hope that when I am 70, I will have the strength of spirit to learn, grow, and fight as Dr. Lomanitz has, and still does. LMG

- He's the best teacher teaching me this semester.
- Dr. Lomanitz is a great teacher. Forcing him into retirement would be a shame for him as well as the many future students who could benefit from his teaching.
- Dr. Lomanitz has a lot to offer incoming students. I am sorry to see him retire.
- Dr. Lomanitz did an excellent job. It is a shame that he is being forced to retire. He will certainly be missed.
- Mandatory retirement age is BULLSHIT.
- You assholes should burn in hell for forcing him to retire.
- One of the finest teachers I have ever had.
- Dr. Lomanitz did a very good job. One can tell that he loves what he is doing. He always answers questions and is easy to understand. It is a shame he is not allowed to teach anymore. It was a pleasure and honor to learn physics from a man as smart as Dr. Lomanitz.
- The best professor I have ever had. He should not be forced to retire. The law is outdated and prejudiced.
- Dr. Lomanitz is a confident and certainly more than qualified teacher. It is a shame that he is being forced to retire due to age. He will be missed by many students.
- I am disappointed that Lomanitz must leave due to his age. He is more alive than many younger teachers and is a teacher that wants and *helps* his students to LEARN, not just pass. He is an excellent teacher and I wish whoever made the decision to make a good teacher leave does not do it again and deprive our school of an excellent teacher.
- He's a great teacher, and it's a pisser that you guys are making him retire.
- I wish this wasn't Dr. Lomanitz's last semester teaching. He's an exceptional teacher.
- Professor Lomanitz did a really incredible job. I, myself, am all for professor's who work to have their students understand their work as opposed to memorizing it. Good class, sorry to see this professor go.
- I think he is an excellent teacher and should not have to retire.
- Dr. Lomanitz is an excellent teacher. It will be a huge loss to the Physics Department when he retires.
- Dr. Lomanitz is a great teacher and should be allowed to keep teaching as long as he is able. I think it is really shitty of Tech to kick out an excellent professor. There are too many incompetent teachers at Tech already. Why hire more to replace a good man.

The students in Lomanitz's introductory physics consistently rated him in the top 20%, with only 9% of the ratings falling below 4 on a 1-5 scale.

STEPHEN SMOOGEN'S HOROSCOPES

(Paydirt accepts no liability for the content of these horoscopes. Cast your own if you like.)

Well, as is plainly obvious from the last paper, I, your illustrious pathfinder to the stars, was unable to get my predictions to print. Contrary to the popular rumour, I am not the arrogant writer who decided to wait until re-negotiations on my contract were finished for the \$10 dollars per column inch I asked for. Nor was I replaced by another astrologer due to the popularity of his last semester's column. I would like to thank once again the great Swami Samoht Senoj for doing such an excellent job of filling in for me while I attended to important business in New Hampshire. The work I was doing was the oldest part of my profession, looking at the chances of someone would become leader. My presidential hopeful client, initials P.B., was taking the advice of an old employer about how to get the most out of your future... using an astrologer.

Aries(March 21—April 20): This is a period of indecision as Neptune murky wrath comes to bear upon you. Grades may drop if you let these thoughts cloud your mind. Any current relationship may go through a time of hardship, a little perseverance will accomplish wonders. Getting to work on time may get you a promotion and a raise.

Taurus(April 21—May 20): Due to a cloudy sky last night, your horoscope is a little fuzzy... A shadowy stranger will enter your life soon to be a great boon, or a hideous danger. A surprise quiz in either your easiest or hardest subject will come up next week, helping or hurting your grade. You may be audited soon or get a check.

Gemini(May 21—June 21): Upcoming festivities may involve frolicking with sheep if you are not too careful with how much you drink. Look for a steady relationship to take a new turn soon. Money from across the country may arrive in your mail, but be careful that any checks don't bounce. A computer glitch may keep you tied up for some time.

Cancer(June 22—July 22): The spending of money may be hazardous to your health this pay period as certain important funds come up missing, and Uncle Louie wants them back. An important homework assignment may be easier than it seems. A strong relationship may become stronger if Venus has her way with you, but be careful of becoming too intertwined.

Leo(July 23—August 22): Your feline nature gets the better of you this week when you have to protect your mating rights from a rival. Be Careful of using too much of your claws as some wounds never heal. A sunny disposition may earn you new friends. Due to the kind hearted nature of your professors, all your midterms will be on the same day.

Virgo(August 23—September 22): An upcoming test will bring hidden anxieties to the surface as you realize that all your friends only like you for your grades. A carefully planned date may bring new romance into your life, but may lead to disaster if taken too far. A bonus check may appear in your mailbox as the IRS feels generous.

His staff recommended the checking of the intestines of calves, but it was thought that would be a little too damaging in the tabloid press. So with a first class ticket and my pen and papers, I headed off to the great tame North East. Just like the priests of the ancient Babylonians, I checked to see if he would be victorious... but unlike them I wasn't beheaded for saying no. I then went into where his opponent was weak so that all advantages could be taken. Pluto resided in his opposing sign meaning that past decisions on money would come to haunt him. P.B. took full advantage of this, and got slightly higher results than I predicted. Well hopefully, I will not be called away again, and will be able to bring you my fine, witty, and powerfully illuminating horoscopes. (This may change, however, as I have been asked by the other party to figure out if some governor will run or not, and why some dark horse is doing so well.)

Libra(September 23—October 22): Look for rainy skies with the chance of sunshine in the late week, with temperatures cooling off as passion wears thin. A hurricane of a test may wash up during the early week, but this may miss you if your luck holds out. A friendly smiling weatherman will haunt your dreams for the next week with similar messages.

Scorpio(October 23—November 22): A powerful test in life will cloud your mind for a couple of weeks, but you should get through it eventually. Romantic relationships will stay steady or drop a little due to the lack of stellar influence. A reworking of finances may allow you to scrape up enough money for a movie although this may be unlikely.

Sagittarius(November 23—December 21): A big day approaches when romance will blossom from a fantastic dream into reality. Look for flowers to arrive soon. A test may be delayed as Mercury steals away the answers from your professor. Income may become too thin to bear as you take too much time from your work. Some extra hours may bring great rewards.

Capricorn(December 22—January 19): You receive a pet Gila Monster in the mail, only to find that it is about to lay eggs. The border patrol arrests you illegally smuggling in animals, not believing your tail of how they just appeared in the mail. You miss midterms due to the lack of bail money, but are cleared of charges due to a technicality when arrested.

Aquarius(January 20—February 18): Due to careful studying you are able to bring up your grades in several classes. A friend who comes to your aid may accidentally hurt you in the end. Your paycheck is greatly increased when your social security number is mistaken for being President Lattman's. A smiling face will brighten everyone's day.

Pisces(February 19—March 20): A close study of your sock drawer brings to your attention the fact that someone has been taking half of your belongings. However, you come to the conclusion it is not so bad when they start paying half your bills. Look for a tough homework assignment followed by a wimpy midterm in the coming weeks.

Condoms in the Mailby Marjorie Ward
PAYDIRT STAFF REPORTER

It's Valentine's Day. You're feeling pretty good about life in general because your significant other just gave you a huge box of candy and a dozen roses. Your hopes are high, as you make your way to the post office, that maybe mom and dad remembered this special day with some financial support. As you open your box you find, not a check from your parents, but a little pink valentine. You open the card and there is a condom inside. Or maybe your card didn't have a condom, but your S.O.'s did. Or your best friend got one. You may have had one of many reactions to this condom in your mail. You may have thought that it was funny, or in bad taste, or you may have just ignored it.

The condoms in the mail were brought to you by Gays and Friends of New Mexico Tech in conjunction with National Condom Week. There was some humor intended in their distribution, but for the most part, they were sent with a serious message intended. The message is that AIDS (and other sexually transmitted diseases) is a deadly disease, whose spread can be decreased by the simple use of a condom. Of course, Valentine's Day is a romantic time when no one wants to think about such non-romantic things such as sexually transmitted diseases. But just think how unromantic it would be if you got AIDS because you didn't use an "unromantic" condom.

You may think that AIDS is just a "homosexual" disease, and the fact that the condoms come from Gays and Friends might seem to support that fact. The truth is that the homosexual community, while maybe being more aware about AIDS, is not the only victim of this disease. There are three major ways to get AIDS:

- By having anal, vaginal, or oral sex (regardless of your sexual orientation) with an infected person,
- By sharing drug needles with an infected person, or
- By receiving the virus from your mother during pregnancy or birth.

Unless you do drugs, as a college student your biggest risk is through sexual contact. Using a condom can help improve your odds of not getting the disease. But condoms are not foolproof. In order for condoms to be effective you have to use them correctly, and you have to use them every time that you have sex (oral, anal, or vaginal).

So here's hoping that if you and that special someone had a passionate Valentine's Day that you used the condom that you found in your mailbox. After all, dying can be so romantic.

(NOTE: There's lots of information about AIDS and HIV in the upstairs hall of Wells between Student Services and Financial Aid... Check it out.)

Men of profound sadness betray themselves when they are happy: they have a mode of seizing upon happiness as though they would choke and strangle it, out of jealousy—ah, they know only too well that it will flee from them!

—Nietzsche

