

Gold Pan

New Mexico Tech

Spring 2001

Student Apartments



Posh Digs for Tech Students – the new Student Apartments are the latest addition to the campus skyline. Built on the site of old Married Student Housing, behind the Student Activity Center, the complex opened for the Fall 2000 semester. The complex offers furnished two- and four-bedroom apartments. More current views of the campus are in the centerfold of this issue.

New Degree and Research Center Founded

A new research center, the Institute for Complex Additive Systems Analysis (iCASA), and a new degree program, Information Technology, have joined the line-up at New Mexico Tech.

iCASA is a unique joint venture among academia, government, and the private sectors to address the problems of large-scale systems which have grown over time and have developed vulnerabilities. Such large-

scale systems can include electrical power grids, the Internet, and international economic and trading systems. World businesses and economies are dependent on such systems, and yet the random nature of their growth makes them vulnerable to accidental failures and deliberate attacks.

iCASA is funded through a \$5 million appropriation secured by U.S. Senator Pete Domenici and Congressman Joe Skeen, both R-N.M. In

addition to developing fundamental comprehension of large-scale systems, iCASA will also focus on training and education of future experts to deal with assuring the stability of interdependent systems in the United States.

New Mexico Tech's Departments of Computer Science, Engineering, and Management, together with iCASA's private and public sector partners will focus on state-of-the-art science and systems analysis, thus expanding the ability to model, analyze and manage complex systems. In addition, the Departments of Computer Science and Management have founded a new academic program at Tech, Information Technology (IT). IT is an interdisciplinary field dealing with the development, utilization, interrelation, and confluence of computers, networking, telecommunication, business, and technology management in the context of the global Internet.

IT students will study not only system-level programming and operating systems but also human information processing and decision making; legal, ethical, and social issues of information technology; cryptography and applications; and systems, risk and decision analysis. It is anticipated that students will have opportunities for on-campus jobs and internships at iCASA. A complete description of the IT program is available at www.nmt.edu/mainpage/depts/it/homepage.html.

IN THIS ISSUE

Cover:
New Student Apartments

New Degree and Research Center Founded

Letter from the Editor 2

Montoya Named Student Regent 3

TechNotes 4

Student Co-Authors Nature Article 5

People You Know 6

Obituaries 13

Back Cover:
Keep in touch!

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Gold Pan is available on the web at www.nmt.edu/mainpage/alumni/goldpan/.

New Mexico Tech is an equal opportunity/affirmative action institution.

From the Editor:

Greetings, Tech alumni! I'm Kathy Hedges, and I have been bringing you *Gold Pan*, one way or another, since I started working for Tech in 1985. I've had the same job ever since I've been here, although I'm now working for a different office, doing very different things than when I started.



When I started, editing *Gold Pan* and some Admission publications was my main job. Along the way, I acquired responsibility for maintaining content for Tech's official web pages, which now number over 1,200. I have written graduation scripts and annual reports, managed the production of videos, helped line up parades, collected tickets, written obituaries, edited *SCOPE* weekly newsletter, driven vans of alums to the top of M Mountain, given guided tours to prospective students, developed exhibits, and I-don't-know-what-all.

When I started, the "Tin Can" stood where MSEC rises now, and Speare was still a library. My office, Information Services, was in a small building near Jones, and we did editing and printing for the campus, as well as public relations. Now, I am part of the Advancement Office in Brown Hall.

We cover many areas of college communications: collectively, we six or seven people oversee development and fundraising, keep in touch with alumni, organize reunions and alumni events, produce Admission publications, promulgate news, put out *SCOPE* once a week, and otherwise do whatever we are called upon to do at the moment that needs doing. And the web! Did I mention the web?

As you can imagine, over the years, priorities change, and now our priority is to bring you *Gold Pan* more often, in shorter, more newsy editions. *Gold Pan* has also been getting more and more electronic over the years. Many of you know to look for us on the web at www.nmt.edu/mainpage/alumni.html, where *Gold Pan* is available in both html and pdf formats. We are seeking better ways of mailing it electronically.

As for me, I was born in Washington, went to Cornell, and worked all over the country till I came home to New Mexico. I live part-time in Socorro (which I love) and part-time in Belen, with my husband, science fiction writer Walter Jon Williams. We have three cats.

Keep in touch with us:
 Kathy Hedges

New Mexico Tech Alumni Association

- | | |
|---|---|
| <i>President:</i> Theresa Annette Boracci ('96, BGS) | <i>Out-of-state vice president:</i> Sandra Grebe ('91, MST) |
| <i>President-elect:</i> Joy Thompson ('95, BGS) | <i>In-state vice president:</i> Harvey Padilla ('00, MS, chemistry) |
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Montoya Named New Student Regent

by George Zamora

Albuquerque native Anthony Lewis Montoya, Jr., a senior majoring in electrical engineering at New Mexico Tech, recently was appointed by Governor Johnson and confirmed by the state legislature as the newest member of the New Mexico Tech Board of Regents, the university's five-member governing board.

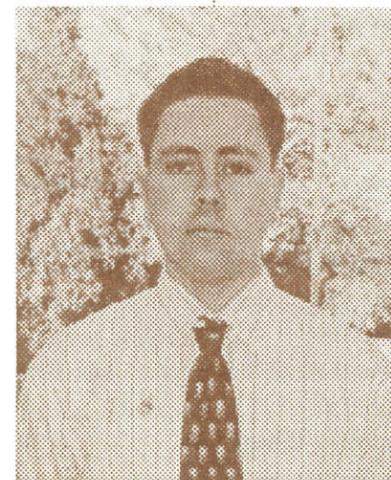
Before assuming his undergraduate studies as a transfer student at New Mexico Tech, Montoya, a graduate of West Mesa High School, was a top student at the Albuquerque Technical Vocational Institute, where he graduated with honors with two certificates in electronic process control and electronic semiconductor manufacturing and also with honors with three associate of applied science degrees in electronic process control, electronic semiconductor manufacturing, and pre-engineering.

Montoya is the son of Anthony L. Montoya, Sr. and Loretta P. Montoya of Albuquerque. "I harbor a deep interest in student representation which is instilled with pride in my attending New Mexico Tech," Montoya says. "As a student regent, I wish to maintain the integrity of the school, as well as ensure that the

reputation it carries will last for many more generations.

"In addition, keeping New Mexico Tech recognized as one of the top research and engineering universities is my primary focus," he adds.

Besides being recently named student regent at New Mexico Tech, Montoya also has several other academic honors to his credit, including being selected last year as one of the top 100 Hispanic college students in the U.S.A. by *SuperOnda* magazine.



He also was named last year to the All-New Mexico Academic Team by Phi Theta Kappa, the international honor society of two-year colleges. Montoya, a member of Phi Theta Kappa since 1994, also more recently was

inducted into Tau Beta Pi, the national engineering honor society. While attending Albuquerque TVI on an Intel Opportunity Scholarship, Montoya was selected the recipient of the community college's 1998 Outstanding Achievement in Technology Award.

Montoya, who is a FCC-certified Technician Class Amateur Radio Operator, also is an active member of the New Mexico Tech Amateur Radio Club, and lists additional current memberships

in the Society of Hispanic Professional Engineers, Tech Physics Club, Tech Golf Club, and New Mexico MESA.

In addition to his studies, Montoya is employed as a tutor for calculus and electronics courses. He is also an active volunteer for America Reads Challenge and the Youth Literacy Program, as well as a mentor for Youth Development, Inc. in Albuquerque and at Tech.

"New Mexico Tech is, in my opinion, one big family," Montoya relates. "You aren't just a number here since all the staff and faculty know who you are. Tech is a very unique environment in which to receive such a quality education."

49ERS IS COMING!
October 19 and 20

This year's 49ers will be held in conjunction with the annual **Enchanted Skies Star Party**. We will join the Tech Astronomy Club on Friday night, October 19, for a guest speaker and a star party. As the schedule develops, it will be posted on the alumni website at www.nmt.edu/mainpage/alumni.html. Alumni should be aware that full schedules are no longer sent via conventional mail for 49ers and other events. We will send you a postcard reminder, listing highlights of 49ers weekend. To increase timeliness, schedules are posted on the web page, and email is sent to the *Gold Pan* egroup available through Yahoo.com.

TECHNOTES

New Specializations in Explosives Engineering Offered

Building on its history as a mining college, New Mexico Tech now offers specializations in explosives engineering, two at the master's and one at the bachelor's level. Mineral Engineering offers the bachelor's specialization. Mineral Engineering and Engineering Mechanics both offer the master's version.

Not only are the new degrees offered on New Mexico Tech's campus, but also some of the courses are being taught at partner schools, through distance education. Currently, courses are being offered at Northwestern University and University of Missouri at Rolla through the Internet2 connection.

For curriculum descriptions, see Tech's online catalog listings:

- Mineral Engineering's BS program: www.nmt.edu/mainpage/depts/mel/ugpro.html#explo
- Mineral Engineering's MS program: www.nmt.edu/mainpage/depts/mel/gradpro.html#explo
- Engineering Mechanics' MS program: www.nmt.edu/mainpage/depts/engr/msem.html#ee

Contacts: Dr. Harold Walling, (505) 835-5636, hwalli@nmt.edu
Dr. Catherine T. Aimone-Martin, (505) 835-5346, caimone@nmt.edu

Tech Zips Online with Internet2 Connection

New Mexico Tech has joined an elite group of 182 U.S. universities, along with national research

laboratories such as Sandia and Los Alamos, in a project called Internet2, aimed at developing and deploying the advanced network applications.

"Internet2 is specifically set aside for education and research," explains Bob Tacker, director of Tech's Information Systems Division (ISD). "With its huge bandwidth, Internet2 can carry information more than 6,000 times faster than sending something on the Internet over regular phone lines."

The new connection allows researchers at Tech's EMRTC, iCASA and IRIS/PASSCAL, as well as the National Radio Astronomy Observatory, improved access to other research facilities, databanks, and supercomputers located throughout the globe.

The new network is also benefiting distance education at Tech. Several New Mexico Tech students pursuing degrees with an emphasis in explosives engineering are taking an on-line course in "construction vibrations," being transmitted from Northwestern University through the Internet2.

DuPont Donates Patent to Tech Research Foundation

The New Mexico Tech Research Foundation has received a substantial corporate donation of intellectual property from DuPont Chemical Solutions Enterprise, a subsidiary of corporate giant E.I. du Pont de Nemours and Company (DuPont).

DuPont donated patents, patent applications, and technical information pertaining to the use of a strontium chloride bath for sodium

electrolysis. The process can be used for, among other things, manufacturing sodium. Its market value has not been determined.

Astro-Camera System Donated to New Mexico Tech

A state-of-the-art astronomical instrument valued at slightly over \$746,000 has been donated to New Mexico Tech for educational and scientific studies conducted at the university's Langmuir Research Site, located atop the nearby Magdalena Mountains.

Graham W. Flint, president and CEO of Photera Technologies, gave Tech one of his company's "Sky Image 2000.0," a telescopic 36-inch astrocamera system complete with coated lenses, equatorial mounts, tracking and alignment systems, and associated filter and shutter assemblies. The system was previously used to produce photographic charts featured in a sky atlas for amateur and professional astronomers. The astro-camera was located at Tech's Joint Observatory for Cometary Research, now closed, on top of South Baldy.

Dave Westpfahl, professor of astrophysics at New Mexico Tech, says "This telescope will be used to make three-color images of the Milky Way, to provide a state-of-the-art color atlas of our own galaxy. It is anticipated that the atlas eventually will be produced in mural form."

Norman Invents Low-Cost, Low-Tech Arsenic Filter

David Norman, a professor of geochemistry at New Mexico Tech, recently was awarded a \$25,000

grant from the Conrad N. Hilton Foundation to further develop his new "low-tech" method of removing arsenic from drinking water.

The simple filtering device consists entirely of a five-gallon plastic bucket with a hole on the bottom, filled with crushed and screened laterite — a weathered material composed primarily of iron oxide, which occurs naturally in some soils.

Norman will adapt his bucket-filter technology for use in villages in Ghana where villagers are often subjected to high arsenic levels in their drinking water, which is typically drawn from communal wells.

"In our field studies in Ghana, we came across water with so much arsenic that drinking it will result in

skin problems and cancer," Norman relates. "But after we ran it through the bucket filter, you could safely drink the stuff . . . These type of filters are awesomely efficient."

Student Co-Authors *Nature* Article

Steven C. Ball, a senior majoring in mechanical engineering at New Mexico Tech, is listed as one of the co-authors of an article published in a recent issue of the scientific journal

Nature. On July 27, 2000, Ball and his research colleagues pointed the VLA radiotelescopes for 90 min-

utes at a brown dwarf — a dim celestial object that is something between a large planet and a tiny star — and saw unexpected: radio emissions, signifying that energetic flares many times more powerful

than those of our own sun were being shot out of the enigmatic object.

The *Nature* article, titled "Discovery of Radio Emission from the Brown Dwarf LP944-20," is shaking up the astronomical community because the existence of such

powerful emissions from a brown dwarf could shed light on the dividing line between how st



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People You Know

Items submitted from December 2000 to March 2001

1950s

Dr. Ralph E. Pray ('56) served as historical consultant for The History Channel TV program "Gold Mining," broadcast in July 2000. Ralph finished his undergrad work at the University of Alaska while serving as territorial assayer. He earned his doctorate in metallurgical engineering at the Colorado School of Mines before entering research management with U. S. Steel. Ralph founded the Mineral Research Laboratory in Pasadena, Calif., in 1968, and continues as president of that firm, now located in Monrovia, Calif. He is the author of over 100 published book and magazine articles, short stories, and essays dealing principally with his experiences in the mining industry (see www.mine-engineer.com).

J. W. "Bill" Powell ('58, BS, mining engineering) retired on Oct. 15, 2000. He is contemplating moving from Wyoming back to New Mexico.

1960s

Mike Burke ('68, BS, chemistry) writes, "After being snagged by the SS out of grad school, I finally finished a master's degree in chemistry from the University of Colorado and went to work in the pharmaceutical industry in North Carolina.

"I married in 1977 and left the country with my wife, Susan

Bowling, for two years of back-packing around the world. Came back to North Carolina in 1980, still in pharmaceuticals, and with what, at the time, was the Wellcome organization, a British multinational.

"I had several internal careers, ending as Licensing Director, before coming out to Colorado to run a T-cell immunology company, which I then sold to another Colorado biotech. Spent some time home getting to know our daughters, Elizabeth and Cheresse (who are now 16 and 13) and working with their school, then worked with a Seattle gene therapy company as VP of Corporate Development. The commute was, shall we say, interesting so I am now consulting for them on business development issues."

Gary Terrell ('69, BS, computer science) retired from the University of Texas at Austin to take a position as chief information security officer at ADOBE systems, a software publisher in Silicon Valley.

1970s

Ed Beach ('71, BS, computer science) retired from the United States Navy in 1996 with the rank of captain after 25 years as a naval aviator and aeronautic engineering duty officer. His last assignment was as Commanding Officer at the Naval Aviation Depot in Alameda, Calif.

Ed is currently manufacturing operations director at Applied Materials, a maker of semiconductor capital equipment in Santa Clara, Calif.

He received a master's degree in Operations Research and Systems Analysis from the Naval Postgraduate School in 1979 and an MBA in Manufacturing and Logistics Management from George Washington University in 1992.

Don Blea ('72, BS, math) writes, "Hello to alumni who know me. I am in Tucson, Ariz. I have been working for IBM for 28 1/2 years as a software engineer (technical term for programmer). Hope everyone is healthy and maybe wealthy, because I know you are wise, having graduated from Tech.

"I am a very proud grandparent of a 7-month-old grandson whose father and mother both work at IBM while grandma takes care of the baby."

Robert S. Young ('72, BS, metallurgical engr.; '84, MS, mineral engineering) worked for MolyCorp in Questa, N.M., for 20 years and is now working for the state as a highway engineer. He resides in Lamy, N.M.

Dr. John F. Alderete ('73, BS, math; '74, BS, biology) of the University of Texas Health Science Center at San Antonio, has been elected to a fellowship in the American Academy of Microbiology. He was honored for a distinguished career in infectious disease research. Alderete has investigated the molecular pathogenesis and virulence factors of the sexually transmitted disease, *Trichomonas vaginalis*, which affects millions of women worldwide.

Academy fellows are elected by their peers based on their records of outstanding contributions to

microbiology, scientific achievement and leadership. Academy fellows represent 35 countries and all subspecialties of microbiology, including basic and applied research, teaching, public health, industry and government services. Alderete is one of only 1,700 scientists elected to academy fellowship in the organization's history.

Michael Provenza ('75, BS, mining engr.) has been promoted to general mine manager at McKinley Mine in Gallup, N.M., with the Pittsburg & Midway Coal Mining Company.

Dr. Karl Staudhammer ('75, Ph.D., metallurgy) is the new deputy division leader for programs and science for the Nuclear Materials and Technology Division at Los Alamos National Laboratory.

Staudhammer is a U. S. Senior Scientist Humboldt Fellow and an American Society for Materials International Fellow. He received the DOE's Weapons Recognition Award for Outstanding Technical Achievement for electron microscopy evaluation of plutonium in 1987. Before coming to New Mexico Tech, Staudhammer earned a bachelor's degree in mechanical engineering from California State University at Los Angeles; and master's and engineer's degrees in mechanical engineering and materials science from the University of Southern California.

Staudhammer has worked at LANL since 1978. During his career, he has conducted research on a variety of property-micro-

structure relationships including microscopy, metallurgy, and transformations of plutonium. He has been team leader, deputy and acting group leader in both the Materials Science and Technology and Nuclear Materials and Technology Division.

David Elsbernd ('76, BS, biology) writes, "My spouse, Gayle, and I are awaiting our third grandchild. Between grandparenting duties, I keep busy climbing snow-covered volcanoes here in the Pacific Northwest, such as Mt. Rainier and Mt. Shasta, and stay in shape running ultramarathons. I work for Biotronik, validating pacemaker hardware and software." Friends can reach David at DaveElsbernd@Earthlink.net.

Mark Ivey ('77, BS, environmental engr.), his wife Nicole, and their two sons, Noah and Jack, recently moved to Bozeman, Mont. Mark is a senior research engineer and project manager at Montana State University's Spectrum Lab. Nicole is a photographer, specializing in black-and-white portraits. Noah and Jack are learning to ski.

Steve Reynolds ('78, BS, geology) writes, "I moved with my wife, Laura, and our three daughters to the Marshall Islands in May 2000 after spending the last 20 years living in the Dallas-Fort Worth area. My current position is with the Environmental Department for Raytheon Corporation which is the Logistical Support Contractor for the Kwajalein Missile Range.

"We live on a small island with a population of 2,500 and enjoy the

warm weather, beautiful water and five-minute bike ride to work. My daughters are Alyssa, 10, Julianne, 7, and Michelle, 4."

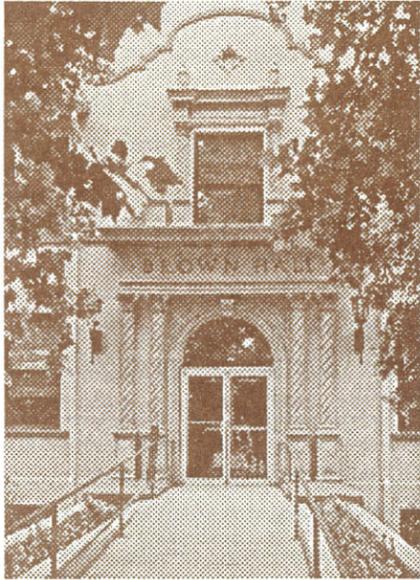
Steve would like to hear from friends at Steve.Reynolds@kls.usaka.smdc.army.mil

Dr. Sandy Riese ('76, BS, geology; '78, MS, chemistry), after graduation from New Mexico Tech, earned his Ph.D. in geochemistry at the Colorado School of Mines in 1981. Sandy served as president of the publicly traded international environmental, infrastructure development and construction engineering firm, Harding Lawson Associates, Inc. with more than 50 offices domestically and around the world. He has recently left the firm to start a new venture (EnSci, Inc.), focusing on litigation support, international project development and project finance. He has recently completed a project financing more than \$300 million for a major gas to liquids project in Western Australia and is presently pursuing power project financing for projects in California. EnSci's primary business for which Dr. Riese serves as president and CEO is strategic consulting for major litigations for private industry and law firms in the environmental industry. Dr. Riese can be contacted at sriese@qwest.net

1980s

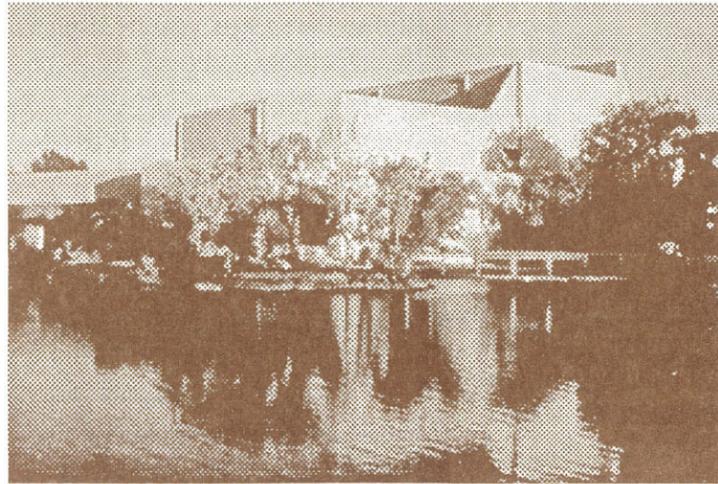
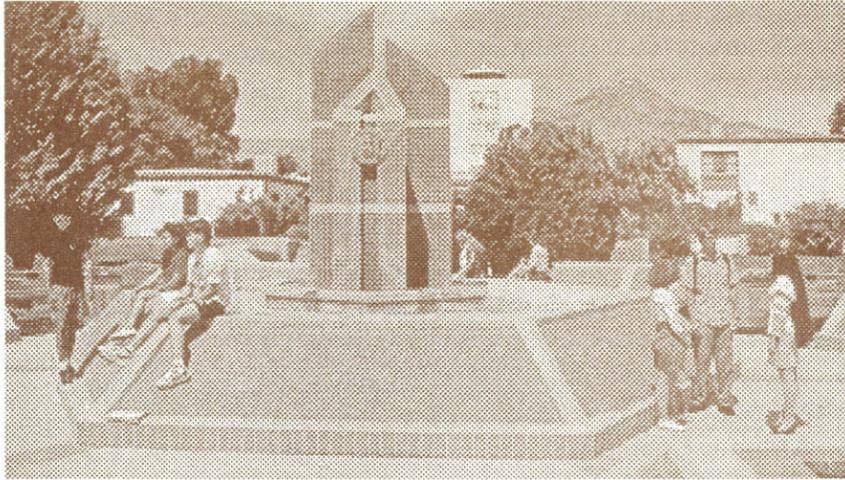
David Duggan ('80, BS, computer science) writes "I must have been having too much fun at work after transferring to the Information Design Assurance Red Team at Sandia National Laboratories in June 1998. My wife, Ruth Aerts (continued on page 10)

New Mexico Tech ~ 2001



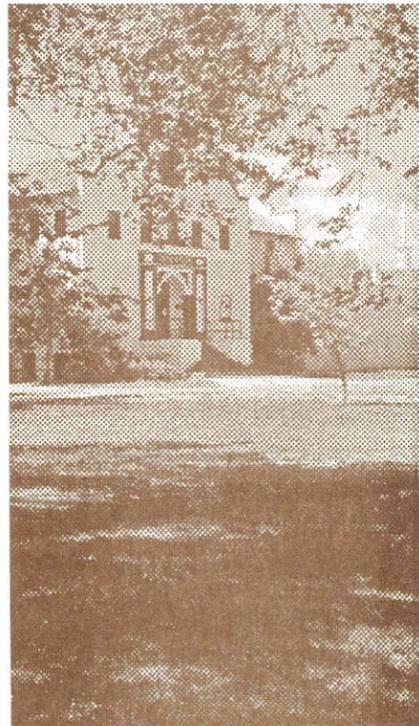
Brown Hall

Centennial Plaza

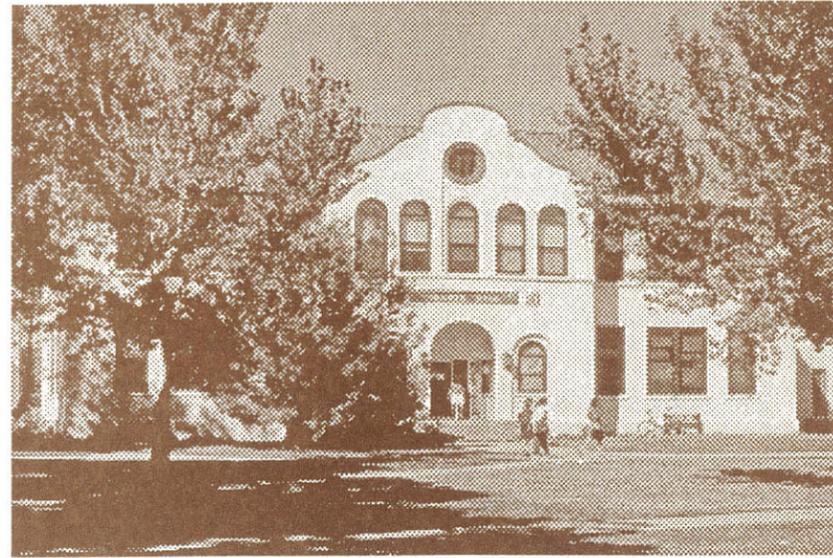


Macey Center

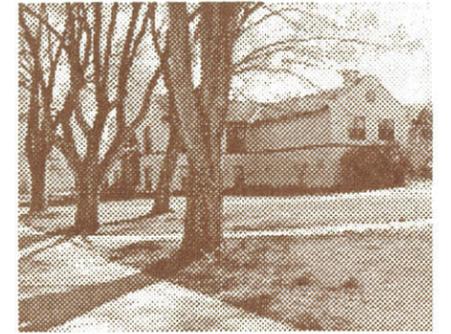
Gymnasium



Student Apartments



Cramer Hall



Wells Hall

Library



Weir Hall
*(currently undergoing
extensive renovation)*

(continued from page 7)

Duggan ('81, BS, physics) decided to transfer to the same organization this past year. The team has been hired to break into cyber systems for a wide variety of government and commercial entities. You can read about one of our exercises in the December issue of *Scientific American* or at www.sciam.com/2000/1200issue/

Kathy Muller-Ogle ('81, MS, hydrology) has accepted a position with the Wyoming Department of Environmental Quality, Land Quality Division as the cumulative hydrologic impact analysis hydrologist for the Powder River Basin.

Dr. Charlotte Rowe ('81, BS, geology; '00, Ph.D., geophysics) writes, "After graduating with my bachelor's degree, I worked for G.S.I. (Dallas) for two years doing 3D seismic for oil exploration. Then, I relocated to Fairbanks, Alaska, to obtain an M.S. in geophysics. Stayed in Fairbanks working with the Alaska Earthquake Information Center and Alaska Volcano Observatory as staff seismologist, then deputy state seismologist until 1997. In 1997, I returned to Socorro and New Mexico Tech to pursue a Ph.D. I am currently employed as a post-doctoral research associate at the University of Wisconsin Department of Geology & Geophysics."

Roger Day ('82, BS, geological engr.) writes, "I'm the technical manager for Dyno Nobel, Inc. in the southwestern Virginia/West Virginia region and live outside of

Bristol, Va. My wife Lori is teaching Special Education in Smyth County and working on her master's. My two children are Will and Megan who are 18 and 15 – Will was born my last semester at Tech. I still enjoy hunting and camping, and I usually spend two weeks in November in the Blue Ridge mountains combining the two."

Tim Hayes ('84, BS, chemistry; '84, BS, physics) is a group leader in the Nuclear Materials and Technology Division at Los Alamos National Laboratory. He is married to **Robyn Smith Hayes** ('85, BS, chemistry) who is a chemistry instructor at Northern New Mexico Community College. They have two children: Elizabeth, 11, and Amelia, 9.

Philip L. Johnson ('84, BS, geological engr.) has been promoted to office manager of the San Antonio Office of Cobblestone Engineering. Phil lived for 13 years in Las Cruces, N.M., working for Precision Engineering and AGRA Earth & Environmental. In 1997, he and his wife, LeNora, moved to Harlingen, Texas. Phil and LeNora enjoy hiking, camping, running and flying. Friends can reach Phil at phlojo_tex@yahoo.com.

Carolyn Sims ('84, BS, computer science; '84, BS, math) has resumed using her maiden name, so delete any references to Wenke. She has an awesome 5-year-old daughter, Abby, who she says is all-girl, complete with dresses, tights, and fingernail polish. Last summer, after 16.5 years at

Hewlett-Packard, Carolyn decided to go with a start-up, MontaVista Software, Inc. Carolyn and Abby live in Silicon Valley in Los Gatos, Calif. Old friends can e-mail her at carolyn@mvista.com or carolyn-abby@excite.com.

Nancy McLaughlin ('84, BGS) writes, "I've been working as a systems analyst/product manager for a software company headquartered in Baltimore since 1991. Was first located in Charlotte but the company allows us to tele-commute. I asked if I could move back to Socorro and work from home and the boss said 'Sure!' So, here I am back in the Promised Land (living in Lemitar, just north of Socorro). My address is nancymc@rt66.com.

Greg McFadden ('84, BS, petroleum engr.) is still with Unocal and is currently in Anchorage. He'd love to hear from the Techies we partied with. Contact him at mcfaddeng@unocal.com. Our daughter, Leila, is 16 now and a junior at Socorro High."

Tony Macaluso ('85, BS, math) writes, "My family and I returned to Virginia in July 2000, after living for a year in Nebraska. We now have two children: Michelle, 3 1/2, and Matthew, 1 1/2. My wife, Yen, is a computer scientist, and I am a mathematician, both at the Naval Surface Warfare Center lab in Dahlgren, Va."

Dr. Catherine ("Carrie") Magill ('85, BS, biology) writes, "I left Tech in '85 and went to medical school in Missouri. I then went

back out west to Colorado and did a residency in pediatrics. Lived in Wyoming and Colorado off and on for years, working part time and reproducing. My husband Mike and I have four kids now. They were all born in different states — three at home and one in a hot tub. They are: Zoe, 8, Niko, 7, Xander, 4 and Kali, 1. Most recently, we have lived in St. Paul, Minn., and now St. Louis, Mo., to further my husband's studies in maternal and fetal medicine. He is an obstetrician/gynecologist. He did play rugby in college even though he didn't go to Tech.

"Presently I am taking a break in my career to pursue the challenging fields of motherhood and homeschooling. This has been the most exciting job so far. I ponder the entropic forces of four children on a daily basis, so I feel those physics classes from Tech were not wasted."

Robert Andres ('86, BS, geology; '88, MS, geochemistry) and **Tina Behr-Andres** ('88, MS, geochemistry) recently moved from Alaska to North Dakota. Bob is an associate professor of Space Studies at the University of North Dakota, and Tina is a senior research manager at the Energy and Environmental Research Center at the University of North Dakota.

Gregory S. Sadowski ('86, BS, petroleum engr.) writes, "I have started a new position as sales engineer/territory manager for ExxonMobil Lubricants and Petroleum Specialties Company

in the Pittsburgh area. It is taking some time to adapt to winter weather after living in Texas for seven years. My daughter, Ashlee, born in Socorro General Hospital in 1983, has been accepted for Fall 2001 at Warren Wilson College in Asheville, N.C. How quickly they grow up! I'd love to hear from friends at gregsadowski@yahoo.com."

Jim Linville (87, BS, petroleum engr.) writes, "I've recently moved to Oklahoma City and am working for Devon Energy as a senior operations engineer. My properties are located in and between Hobbs and Artesia, N.M. I'll be traveling to Artesia monthly and look forward to visiting Socorro in the future.

"I'd love to hear from any Techies in the Artesia/Hobbs or Oklahoma City area. My e-mail address is jim.linville@dvn.com."

Kevin T. Parker ('88, BS, geological engr.) writes, "I'm the manager of engineering and a senior group leader for CC Technologies of Dublin, Ohio, which employs approximately 75 persons across the United States and Canada.

"In March 2001, I received the Distinguished Service Award from NACE (National Association of Corrosion Engineers) International at their national conference in Houston, Texas."

Matthew A. Tilman ('88, BS, computer science; '89, BS, geology) has moved to Mission Viejo, Calif., for a position as a web developer with WFS Financial Services, Inc.

Kathleen Young ('88, BS, metallurgical engr.) writes, "I have moved back to the Chicago area after spending 10 years in Alaska. I worked as a corrosion engineer for ARCO Alaska and for Alaska's Department of Environmental Conservation. Along the way, I got my PE license in mechanical engineering. Now I am working as a salesperson and inventory coordinator at The Container Store, and absolutely loving it! Old friends can reach me at kyoung7@earthlink.net."

Shannon Curcio Boardman ('89, BS, geophysics) married Bill Boardman in 1991. They are now living in Madison Heights, Mich., where Shannon teaches special education (learning disabled students).

1990s

David Oakes ('90, BS, biology; '90, BS, math; '93, MS, math) and his wife **Amy Stoklas-Oakes** ('91, BS, physics, BS, engr.; '92, MS, engr.) and their two sons Cam, 3, and Tevel, 1, moved from the frigid north of Minnesota to the warm climate of Phoenix, Ariz., in January 2001. Amy received a promotional opportunity with a new company in Phoenix — The Tech Group — that she just couldn't pass up. David will start teaching at Maricopa Community College this coming fall. Amy says, "We are both looking forward to being near to family and friends."

David Fiddler ('92, BS, technical communication) writes, "After graduation, I took a job with EG&G Energy Measurement supporting the Los Alamos projects at the Nevada Test site out

of Las Vegas. After two years of dealing with security clearance issues, I decided to bag the whole show and climb up to the hills.

"I moved to Silverton, Colo., with Ben Shaver ('92, BS, mining engineering). I began working as a full-time snowboard bum at Purgatory Ski Resort. Not-intending-to-stay-long turned into a life: I worked at various jobs (carpentry, being a waiter, lift operator/foreman/mechanic, Emergency Medical Technician, property manager, teacher etc.), and I still do. After years of trying to figure out what I'm doing, I found that I've figured it out and I'm doing it.

"Currently I'm a paramedic working full time with the county ambulance service, am the director of the Silverton Avalanche School, still do some property management, I teach Emergency Medical Services to those interested, occasionally work at Purgatory (for the pass?), own a truck, a car, a house, three guitars, and take care of a dog (how can I say I "own" him?) Life is short, don't let the end dictate the means!"

Cheryl (Thompson) Graff ('92, MS, math) is working at International Truck and Engine Corp. in Fort Wayne, Ind., as the lead software engineer in the software systems integration laboratory in which electronic control units are tested.

Dr. Nik Chawla ('93, BS, materials engr.) writes, "I recently began a position as tenure-track assistant professor at Arizona State University. Research and teaching keep me quite busy. I was fortunate enough to receive the National

Science Foundation Early Career Award for young faculty. It's a five-year program dedicated to research and educational outreach."

Sharukh Alamshaw ('94, BS, math) is a manufacturing engineer with Advanced Micro Devices in Austin, Texas. The company is the world's second largest micro-processor manufacturer.

Patrick D. Radabaugh ('95, BS, environmental engr.) writes, "I graduated in 1995 with a bachelor's in environmental engineering. After that, I attended Michigan State and completed a master's in environmental engineering (1998). Currently, I work for CDM in Denver doing wastewater and water resources engineering, primarily."

Elizabeth Larkin ('99, BS, biology) writes, "I live and work in Huntsville, Ala., with a great company, Research Genetics. It only took me nine months to find this great job!"

"I found that what is said about Tech being a good school is true. I got to work and all of these people have way less training than I do from Tech."

Vincent Fusconi ('97, BS, environmental engr.) writes, "I moved to Albuquerque in June 1997, after accepting a graduate student internship at Sandia National Labs. My graduate research was the analysis of a soil vapor extraction/air sparging remediation system located at the Mound DOE facility in Miamisburg, Ohio. I received my master's in civil engineering (environmental option) in May 2000, and was hired as a project

engineer for Keith and Schnars, PA, since June 2000.

"A little news for any interested Pygmies, I recently played in the 25th annual Ft. Lauderdale Rugby Tournament, scoring a try and setting up two more."

2000s

Mason Hutchison ('00, BS, general engineering) writes, "I'm busy making airplanes fly down in Las Cruces. I got a job at Adventure Aviation, starting out, at first, doing everything to keep pilots and passengers' flying experiences nice. I also am doing some computer projects involving network and radar aircraft tracking. Getting to fly too! Soon, I am interviewing with a small aircraft manufacturer, Bede Aircraft Corporation, for design work and teaching at their kit-building camps. Having so much fun!"

Dr. Frank Kottowski

1921 - 2001

We regret to report the passing of Dr. Frank Kottowski on April 18, 2001. A full obituary will appear in the next issue. Frank was for many years the director of the Bureau of Mines and New Mexico State Geologist. Donations to a memorial fund may be sent to the Development Office, New Mexico Tech, 801 Leroy Place, Socorro, N.M. 87801.

Willow Burand

1915 - 2001

We are sorry to report that Willow Burand, a 1953 alumnus and longtime good friend and supporter of New Mexico Tech, passed away on April 15, 2001. A full obituary will appear in the next issue.

Obituaries

The following obituaries were received between January and March 2001.

Dr. Glen F. Brown, an alumnus and longtime supporter of New Mexico Tech, passed away on Feb. 22 at a hospital in Fairfax, Va. He resided in Reston, Va.

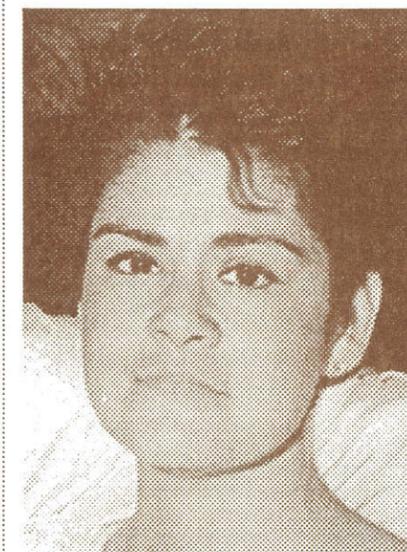
Brown was a 1935 graduate of the New Mexico School of Mines. He had a 44-year career with the United States Geological Survey, retiring in 1982 as senior staff geologist for Mideastern affairs. His adventurous career took him to the Philippines, South China, Thailand, Kuwait and especially Saudi Arabia. The Interior Department, the survey's parent agency, credited him with creating the first true geological, geographic, topographic and tectonic maps of Saudi Arabia. He published more than 100 papers on the Arabian Peninsula. *Gold Pan* hopes to have a more detailed report of Brown's long and remarkable career in a future issue.

Dr. Brown is survived by his wife of 25 years, Helen Royall Brown; a daughter from an earlier marriage, Elizabeth Brown Kulwin of Cincinnati; a brother, Norman, of Bloomington, Ill.; and two grandsons. His first wife, Laura Cameron Brown, died in 1974.

René Dziurzynski, age 37, died on Saturday, Oct. 7, 2000, of complications of diabetes. René was born in Albuquerque on Nov. 30, 1962. She attended Rio Grande High School and then

received a scholarship to New Mexico Tech, where she planned on becoming a biomedical engineer. She attended from August 1980 to May 1982. After she was diagnosed with diabetes, she left Tech with an Associate of General Studies degree and worked for a number of years for America West Airlines in Phoenix. After her health worsened, she returned to Albuquerque and worked for America West and Southwest Airlines.

René took some classes at Tech in the fall of 1986 and also enrolled in the College of Santa Fe, where she earned a bachelor's degree in business administration in 1993.



René was an active participant and frequently a leader in many activities. She was president of her junior and senior classes at Rio Grande, and was active in music, band, drill team, gymnastics, ballet, jazz, teaching aerobics and jazz at the YWCA, and working for her church.

She is survived by her mother, Georgia; father, C. T.; sister, Karen Cox of San Lorenzo, Calif.;

brothers, Eric of Albuquerque and Robert of San Lorenzo; and good friend, David Kozlowski.

The Office for Advancement received word of the passing of **Byron P. Edmonds** ('39, BS, mining engineering). No further information was available.

Cyril J. Perusek, age 84, passed away on Jan. 4, 2001. His wife Barbara preceded him in death on Sept. 20, 2000. Cy and Barbara were a longtime friends and constant supporters of New Mexico Tech and founders of the Cyril and Barbara Perusek Scholarship Fund. The Peruseks frequently visited the Tech campus and were Grand Marshalls of the 49ers Parade in 1994.

Cy was born on July 27, 1916, in Lorain, Ohio, to Joseph and Antonia Perusek. He graduated from high school in Lorain and for three years worked in a laboratory at a steel mill, following which, he attended New Mexico School of Mines. Cy graduated in 1942 with a bachelor's degree in geological engineering. He received a master's degree in geology from Texas Tech University, and he also attended Georgetown University and Boston University. During World War II, he served in the United States Army and O.S.S. Cyril became versed in numerous languages during this time. He married Barbara Gilbert in 1949.

Cy worked for Phillips Petroleum from 1952 to 1980 and then for Geomap during the 1980s. Most recently, he worked as a geological consultant. Cy was

well-read in a variety of scientific subjects. He lectured on Earth science, as well as other topics for numerous organizations, including the University of Texas Permian Basin Midland College, and the Boy Scouts of America.

Through the years, he received many awards for his contributions of time and talent to the science of geology, including the public service awards from the Southwest Section of the American Association of Petroleum Geologists, and also from the West Texas Geological Society. He was particularly proud of his Silver Beaver Award from the Boy Scouts of America, awarded in 1978.

Cy was a member of many organizations, including the A.A.P.G.,

the Texas Archaeological Society, and the West Texas Gem and Mineral Society. For many years, he would spend time each summer with the Boy Scouts at the Buffalo Trails Scout Ranch, having written the information necessary for obtaining the geology merit badge. He and Barbara sponsored numerous scholarships at Texas Tech University and New Mexico Tech. Cy was a member of St. Ann's Catholic Church of Midland and served as an usher there for many years.

Cy and Barbara are survived by three daughters, Dr. Carol Perusek Dowd of Southlake Dr., Marie Perusek Mesa of San Antonio, Tex., and Susan Dally of Houston; brother Stanley Perusek of

Avon, Ohio; sisters Clara Chrysler of Lorain, Ohio, Josephine Perusek (Sr. Mary Edana, S.N.D.) and Mildred Perusek (Sr. Mary De Xavier, S. N. D.), both of Chardon, Ohio; and four grandchildren. Cy and Barbara left a significant donation to New Mexico Tech in their wills.

Nancy Wanner Woodcock, age 48, passed away on Jan. 2001, in Albuquerque, from complications resulting from the flu. She was a 1975 graduate with a BGS, and had worked in the mining and health physics fields for the University of New Mexico, Morrison-Knudson, and others. Nancy is survived by her mother, Jean Wanner of Albuquerque and brother, David E. Wanner and wife, Cheryl A. of Cincinnati.

Letter from Rose Baca

Dear Fellow Alumni,

As I have mentioned in past issues, one of our objectives is to increase Tech's involvement with alumni and friends.

We began fulfilling this objective by holding alumni receptions in Denver, Colo. and Ft. Worth, Tex. We also co-hosted, along with Tech's Admission Office and Proud



Parent Association, "A Night with New Mexico Tech" in Phoenix, Ariz. and Tucson, Ariz. The reception in Denver was held in conjunction with the SME Annual Conference. I would like to thank the generous sponsors of this reception, Boart Longyear

Contracting, Inc. (Robert Buto, '92, '95) and Geotechnika, Inc. (Jackie Lynch Francke, '88 and Chris Francke, '84, '89). It was a pleasure to see over 40 alumni and friends get reacquainted. The alumni, faculty, and friends that signed up were:

- LAWRENCE E. ALLEN, '75
- JOHN AMES, '82
- CATHY AIMONE-MARTIN, *faculty*
- GEORGE AUSTIN, *emeritus employee*
- MARJORIE AUSTIN, *emeritus employee*
- ROSE-ANNA BEHR, '99
- AIMEE K. & JAYSON L. BLANCHARD, '96
- ROBERT BUTO, '92, '95
- A.J. BUDDING, *emeritus employee*
- ANITA BUDDING, '71
- ETHAN B. EILERTSEN, '87
- WILLIAM A. FAUST, '79
- JACKIE LYNCH FRANCKE, '88

- CHRISTOPHER T. FRANCKE, '84 & '89
- ROBERT L. FRIESEN, '90, '92
- DON HAAS, '00
- TERI HARTMAN, '97
- ROBERT A. HEMBREE, '75
- ROBERT M. KEHRMAN, '93
- SHANNON M. KELLY, '00
- AMY KOERNER, '92
- STANLEY KRUKOWSKI, '83, '90
- DANIEL LANDRY
- KATHLEEN LITTLETON, '90
- CHARLENE J. MCBRIDE LONG, '91
- JOHN M. MASTOR, '81
- NAVID MOJTABAI, '82, '85, *faculty*
- VIRGINIA T. MCLEMORE, '77, '80
- MERLIN J. MERCER, '00
- DAVID K. MOSCH, '85
- DERECK R. PRINCE, '82, '84
- ROHINI P. SHARMA, '70
- MURARI P. SHRESTHA, '73
- MARY E. STOLLENWERK, '87
- H. L. STUCK, '68

The New Mexico Tech Alumni Association sponsored the reception in Ft. Worth, Tex. where we

Introducing Marty Jonas

The Advancement Office has welcomed Marty Jonas to our staff as projects coordinator. Marty will



have many responsibilities – among them, she will coordinate events such as 49ers, the President's Golf Tournament, and the President's Club dinner. Rose Baca will continue to be involved in development projects and communications with alumni.

Marty comes to the Advancement Office from the Tech Library, where she worked for eight years. She has a bachelor's degree in archaeology from the University of Maryland and is completing a technical communication degree from New Mexico Tech. She has lived in Socorro for 19 years, and has worked at the Socorro Public Library and the Socorro Post Office, as well as working as a substitute teacher before coming to Tech.

"One of my goals is to increase alumni participation in events," says Marty. "Our office is trying to have more alumni events outside of Socorro, in cities where lots of Tech alums live. We would like to get some alumni chapters started in other cities."

"For events here in Socorro, such as 49ers, we'd like to add some discipline-related workshops, so people can bring themselves up-to-date on their fields. We'd also like to revive some events that were popular with alumni when they were students. I would love to have people contact me with ideas – we want to make this fun for them!" Alumni should contact Marty at mjonas@nmt.edu.

gathered with a smaller but lively group of alums. Thanks to: KAREN STAFFORD-BROWN, '77 JOHN FENDER, '77 & '78 REBECCA CHAVEZ, '98 JON "TAD" HEIMBURGER, '79 LAURA STUART, '97.

In Tucson and Phoenix, Ariz., Development Director Steve Bobinsky held "A Night with New Mexico Tech" for New Mexico Tech alumni, prospective students and their parents, and parents of current Tech students. Steve gave a multi-media presentation on current, cutting-edge research at New Mexico Tech, and participants had a chance to "network" and get acquainted with future Tech students and their parents. Alumni and friends that signed up were: TERRY ANDERSON, '00 E.L., '63, ROMAINE AUSMAN JR. CRAIG HIER, '92, '94 EDWIN, '96, & SUSAN HUFFSTUTLER

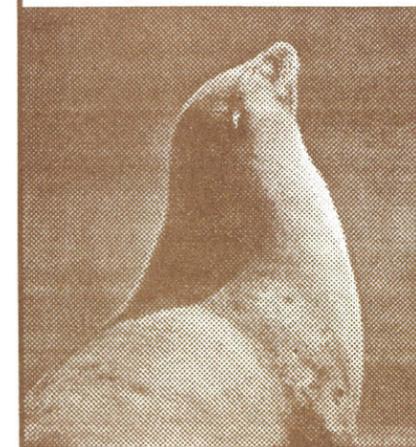
- JOHN LINDSKOG, '00
- BILL, '42, & JEAN MACEY
- HERMAN SHEFFE, '63, & MARY MCKENZIE
- KHANH NGO, '00
- MICHELLE PENA GRIEGO, '96
- CHARLES REAUX, '93
- JOHN REYNOLDS, '95
- GREG SCHWARZ, '92
- KAREN VANLANDINGHAM, '91

We are planning more receptions. Watch our web page (www.nmt.edu/mainpage/alumni.html) for one in your area! This is the first step to establishing New Mexico Tech Alumni Association Chapters in cities across the nation and providing prospective students with an insider's perspective of what our great university is all about!

Rose Baca ('97, BS, technical communication) Coordinator/Marketing & Alumni Relations rbaca@admin.nmt.edu

Albuquerque-area Alums, Families, and Friends
You are invited to join us for
ALBUQUERQUE TECHFEST

*Fun, food, music,
and good friends from Tech!*



6:30 to 9:30 p.m.
at the
**Rio Grande Zoo
Saturday, June 16**

To sign up, contact Rose Baca, rbaca@admin.nmt.edu
or
(800) 428-TECH (8324), ext. 4.