

YOUTH OPPORTUNITY TRAINEES pose for a group portrait after a luncheon at the Coronado Club that wrapped up the summer's work at Sandia. Seventy-seven were with us this summer in various jobs throughout the Labs. All had strong academic backgrounds, and the work at Sandia, while providing some needed

temporary technical and clerical help during Sandia's heaviest vacation period, was an encouragement for them to pursue scientific and engineering careers. The YOTS, ages ranging from 16 to 21, came from cities throughout New Mexico and two came from Arizona. Soila Brewer (3533) coordinated the program.

# LAB NEWS

VOL. 36 NO. 18 SANDIA NATIONAL LABORATORIES AUGUST 31, 1984

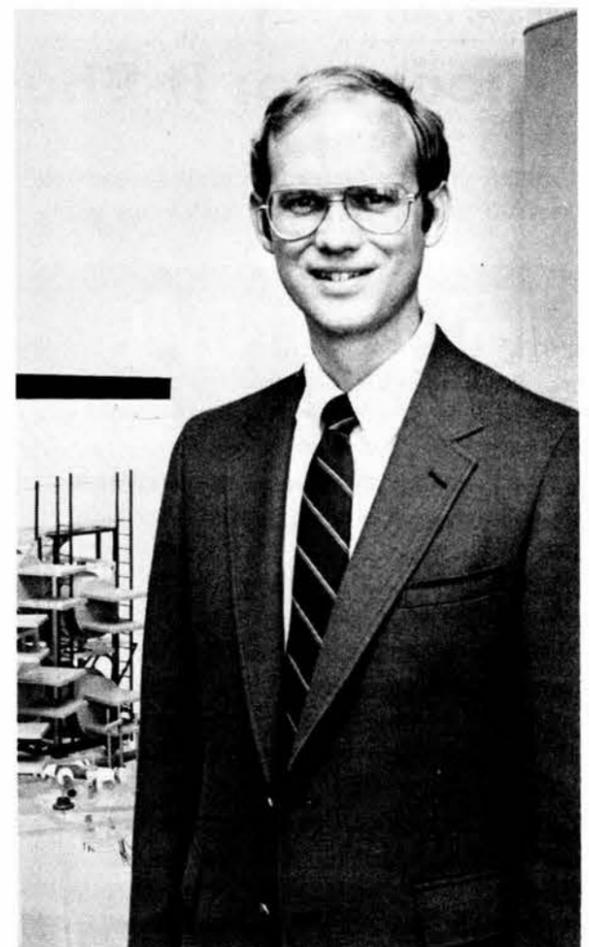
## VanDevender Named Director

Pace VanDevender has been appointed Director of Pulsed Power Sciences 1200, effective Aug. 13. He succeeds Gerry Yonas who was named chief scientist for the Strategic Defense Initiative Office in Washington, D.C.

Pace had become interested in the work Sandia was doing in inertial confinement fusion while studying for his doctorate in England. Following graduation, he joined the Labs in 1974 as a physicist in the pulsed power research and development organization. He was promoted to supervisor of Pulsed Power Research Division in 1978 and, in March 1982, was selected to head the newly created Pulsed Power Research Department. During the past two years he

has been primarily concerned with the Labs' inertial confinement fusion and x-ray laser projects.

He received his BS in physics from Vanderbilt University and his MS in solid state physics from Dartmouth. He was awarded a Marshall Scholarship to the Imperial College of Science and Technology at the University of London, where he received a PhD in physics. Pace is a member of the American Physical Society, IEEE's Plasma Science Division, and Amnesty International. Off the job his interests revolve around the activities of his family and his church. He and his wife Nancy have three children and live in the NE heights.



PACE VANDEVENDER (1200)

# Antojitos

The Curse of the Connoisseur Ever know one of those folks who has worked hard to develop truly discriminating (in the pre-EEO sense of that term) tastes? He or she enjoys only the rarest wines, the most exquisite pre- and post-prandial liqueurs, the finest foods - but only if prepared by a master chef, of course. These connoisseurs have a right to be proud of the achievement, I suppose, but I find myself feeling more pity than jealousy, less impressed than depressed. What they've done is to subject themselves to a life that disappoints far more often than it delights.

But Even Worse That's when you're a would-be connoisseur who is sure "you always get what you pay for." So, to be assured you'll get only the finest foods, you seek out the most expensive restaurant and you demand only the most expensive items on the menu. You can't tell a \$15 steak from a \$30 one, but the bill is worth the expense. That's because at work the next day you can rhapsodize over how much you spent on dinner last night and listen to your co-workers groan. (Ever realize that those groans may stem less from envy than from their attempts to conceal their amusement at your stupidity?) The folks I envy are the ones who operate the establishments these misguided non-connoisseurs frequent.

\* \* \*

Hey, Lighten Up a Little Enough time is now passed that we can probably get away with mentioning some of the great bloopers that have made their way through these guarded gates. A 1955 film on Operation Wigwag, the first underwater nuclear shot, put these words into the narrator's mouth: "If the gage-attaching crew and the winch operator hadn't worked closely together, someone could have been seriously and permanently killed." Our sister publication on the Base once defined the "situational rapist" as a loser who has been "jilted or rejected by girlfriend and wife." LAB NEWS isn't exempt: we once ran a Christmas cover that said: "We wish you a Merry Christmas" - seven times yet! But my favorite is from the Personnel Manual of some years back; it noted that the health care plan had been changed so that "the nine-month waiting period for maternity was eliminated."

\* \* \*

LAB NEWS' Law of Publishing: Some errors will always go unnoticed until the paper has been printed.

Hawkinson's Corollary: The first paragraph of a technical story that the responsible engineer happens to look at will be the paragraph containing the worst error. •BH

## Sandia Factoring Record Part of IEEE Centennial

The breaking of a 300-year-old puzzle, that is, factoring the 69-digit number  $2^{251}-1$ , by mathematicians Gus Simmons (1640), Jim Davis, and Diane Holdridge (both (1641) was recently commemorated by the Association for Computing Machinery in a plaque presented to the IEEE on its 100th birthday. The epic event was selected by ACM as being a state-of-the-art computing achievement and symbolic of computing progress. It was one of many presented during the IEEE Centennial celebration.

When ACM president David Brandin presented the plaque to IEEE President Richard Gowen, he noted that the French mathematician Mersenne speculated that  $2^{251}-1$  was a composite (that is, a factorable number), but as recently as 20 years ago the computational load to factor the number was considered insurmountable. He went on to say, "Using conventional machines and traditional search algorithms, the search time was estimated to be about  $10^{20}$  years." (That's 100 quintillion years).

Using a Cray IS computer and a substantially improved version of a factorization algorithm called the quadratic sieve (originally designed by Carl Pomerance of the University of Georgia), Gus, Jim and Diane factored the number last February (LAB NEWS, Feb. 17, 1984) and found it to be the product of five prime numbers. "The final Mersenne number had lived up to its reputation by providing to be especially difficult to factor even with all the new methods and technology," said Gus. "The process took 32.2 hours of computer time."

Association for Computing Machinery

$$\begin{array}{r} 2^{251} \quad 1 \\ \times \\ 503 \\ \times \\ 54217 \\ \times \\ 178230287214063289511 \\ \times \\ 61676882198695257501367 \\ \times \\ 12070396178249893039969681 \end{array}$$

We've all come a long way!

For contributions to the science of computation, the ACM congratulates

The Institute of Electrical and Electronics Engineers

on the occasion of its 100th Anniversary.

HAPPY 100TH, IEEE! This is the text of the bronze plaque presented to the IEEE by the Association for Computing Machinery. It commemorates Sandia's factoring of the last Mersenne number.

### SHAKERS AND MOVERS

The classic winner of the competition for the least exciting headline is, "Small earthquake in Chile - not many killed." The *Daily Telegraphy* may have been attempting to outdo this. On 15 February 1984, it announced, "Big volcanic eruption on Venus in 1978."  
— Ariadne in *New Scientist*

### Medical Corner

## Nicorette: It Should Be Nicor-Ex

Okay, you want to quit smoking. And you try. And you try. But you just keep going

back to it. And you feel lousy about your willpower, your resolve, your self.

You are not alone. National surveys indicate that nearly one-third of the cigarette smokers in the US attempt to quit each year, but fewer than 20 percent of those who try can abstain even for a few months.

Help — and hope — is ahead. And it comes in a pack!

It's Nicorette, a nicotine chewing gum designed to gradually lower nicotine levels in the bloodstream while you learn how to manage the psychological and social events pressuring you to smoke. In addition, Nicorette immediately stops the intake of carbon monoxide, tar, and other irritants that attack your health.

You're invited to join Medical's new Nicorette support group. It meets on Wednesday, Sept. 5, (and again on Sept. 20, Oct. 3, and Oct. 31) from noon to 1 in the T-13 conference room. More information from Laura in Medical on 4-7169.



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## Supervisory Appointment



RICK STULEN to supervisor of Surface Science and Chemical Physics Division 8343, effective Aug. 1.

He joined Sandia Livermore in October 1976 and worked in surface physics in the Device Studies Division. His later assignments involved studies of secondary electron emission of insulators and of hydrogen embrittlement, especially the interaction of hydrogen with transition metal surfaces.

Rick has worked closely over the last five years with the Stanford Synchrotron Radiation Lab and serves on its Executive Users Organization committee.

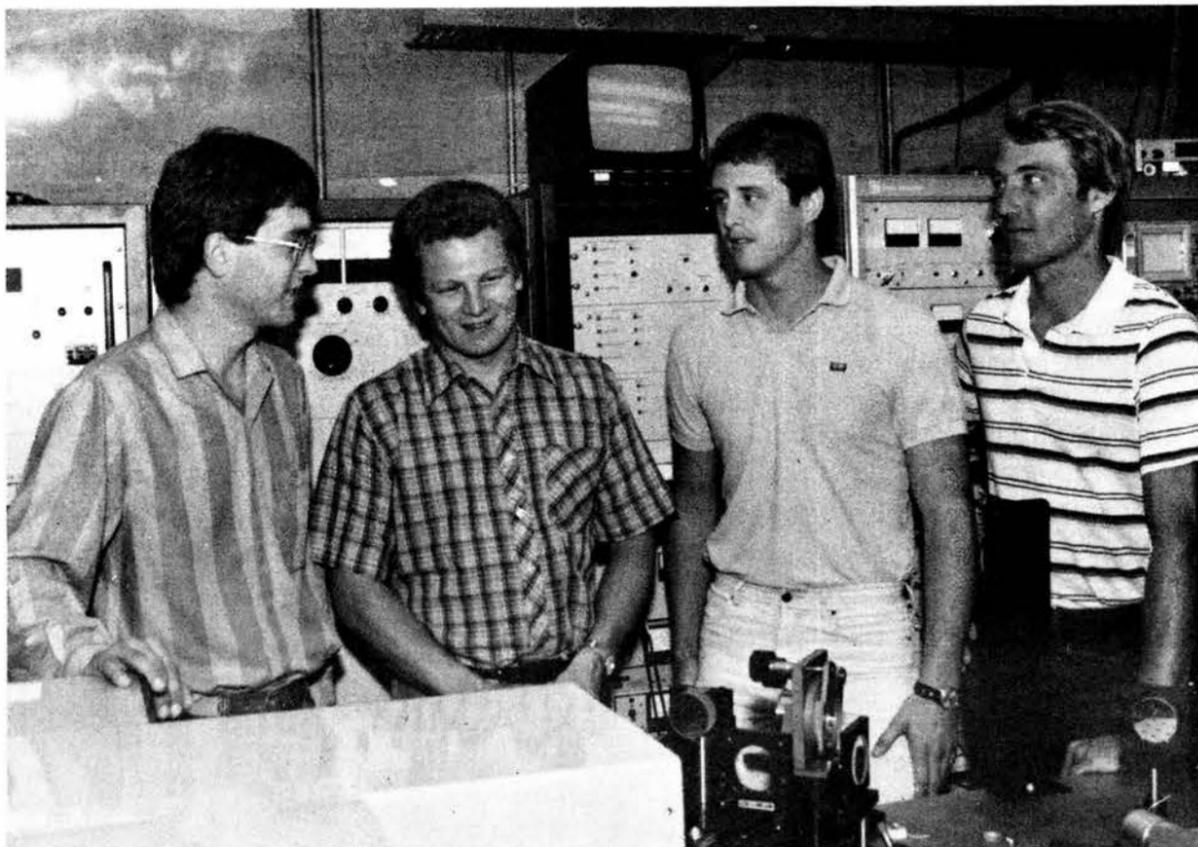
He has a bachelor's degree in physics from the University of Michigan and a PhD in solid state physics from Purdue. While at Sandia he has been a PhD recruiter at Purdue.

Professional affiliations include the American Physical Society and the American Vacuum Society.

Rick and his wife Jennifer have three children and live in Livermore. His hobbies include squash, skiing, hiking, and jogging.

## Congratulations

Tom Bieler (8243) and Stacey Carpenter, married in Fresno, Aug. 18.



SCHOLARSHIP WINNERS — Greg Duncan, second from left, and Kyle Dixon, third from left, are the two second-year Chabot College students who were awarded Sandia's engineering and science scholarships and given summer jobs at the Labs. Greg, an Amador High School graduate, will major in electronics engineering at UC Davis in the fall. He has worked at the Combustion Research Facility in electronic support and safety systems. Kyle, a Granada High School alumnus, will attend Cal Poly at San Luis Obispo this fall and major in mechanical engineering. He has worked in Sandia's Solar Department on a solid particle receiver experiment and the stretched membrane heliostat prototype design program. Their Sandia co-workers are (left) Randy Schmitt (8354) and Guy Prescott (8453).



# SANDIA LIVERMORE NEWS

VOL. 36 NO. 18

SANDIA NATIONAL LABORATORIES

AUGUST 31, 1984

## Completes Education Program

# Marilyn Hawley Advances on Job

One of the first two Sandians to enter the part-time Computer Programming Assistant Development program has completed her studies and has been advanced on the job.

Marilyn Hawley has attained the Senior Technical Aide level and is working in computer support for the Systems Research Division 8478. She began her computer program studies at Cal State Hayward in 1980 and completed the requirements this summer, adding a second major in computer science to her already earned BA degree from previous schooling.

The educational program provides an opportunity for Sandians to qualify for careers in the Labs' computational divisions. Rob Rinne (8470) discovered a need for this new job area a few years ago when he posted a computer support position and saw an "enormous response" from Management Aides. "I was impressed with the number of people who were taking outside coursework," says Rob. "And I realized that a formalized study program supported by Sandia would be an incentive to them — and a benefit to Sandia too."

Rob worked with Education Division 8024, which established the work/study pro-



USING HER NEW SKILLS at the computer is Marilyn Hawley (8478)

gram in 1980. Marilyn was its first participant.

Marilyn's supervisor, Clyde Layne (8478), says "Marilyn has developed very good computer skills and is now doing programming. She is particularly adept at computer graphics and has shown that by producing several movies that plot possible enemy missile attacks against U.S. facilities, movies that support work being done here in strategic threat modeling."

Also in the midst of the program is Fran Rupley (8231), the second Sandian chosen, who has completed several basic classes at Chabot College Valley Campus and is now enrolled at Cal State Hayward for the fall term. Even though the program doesn't demand a college degree, Fran plans to get her bachelor's in computer science — the requirements for the two are similar.

Marlin Pound (8024) explains that the provisions of the program include (1) announcement of the specific trainee positions that carry the title Computer Programming Assistant Trainee; (2) selection by a line division in a work/study program with a mentor assigned to assist the employee in on-the-job work experience and in the academic portion; (3) on-the-job computer-oriented experience to advance in complexity as the person gains experience and expertise on computers; (4) completion of approximately 60 quarter units of college work over the four to six years of on-the-job work experience, taking a concentration of computer science and math courses; (5) payment by Sandia of tuition and required fees for textbooks for courses taken after work hours where other fees are not charged.

More information on the program can be obtained by contacting Jim Smith, program administrator, in the Education Division 8024.

# Supervisory Appointments

JOHN WILLIAMS to supervisor of Personnel Data Systems Design Division 2626, effective Aug. 16.

John joined Sandia in 1959, following his graduation from the University of Texas with a BS in math. John was a tech writer in the military liaison department until 1970 when he transferred to the methods and programming group. Most recently, John has been in Financial Systems Design Division 2625.

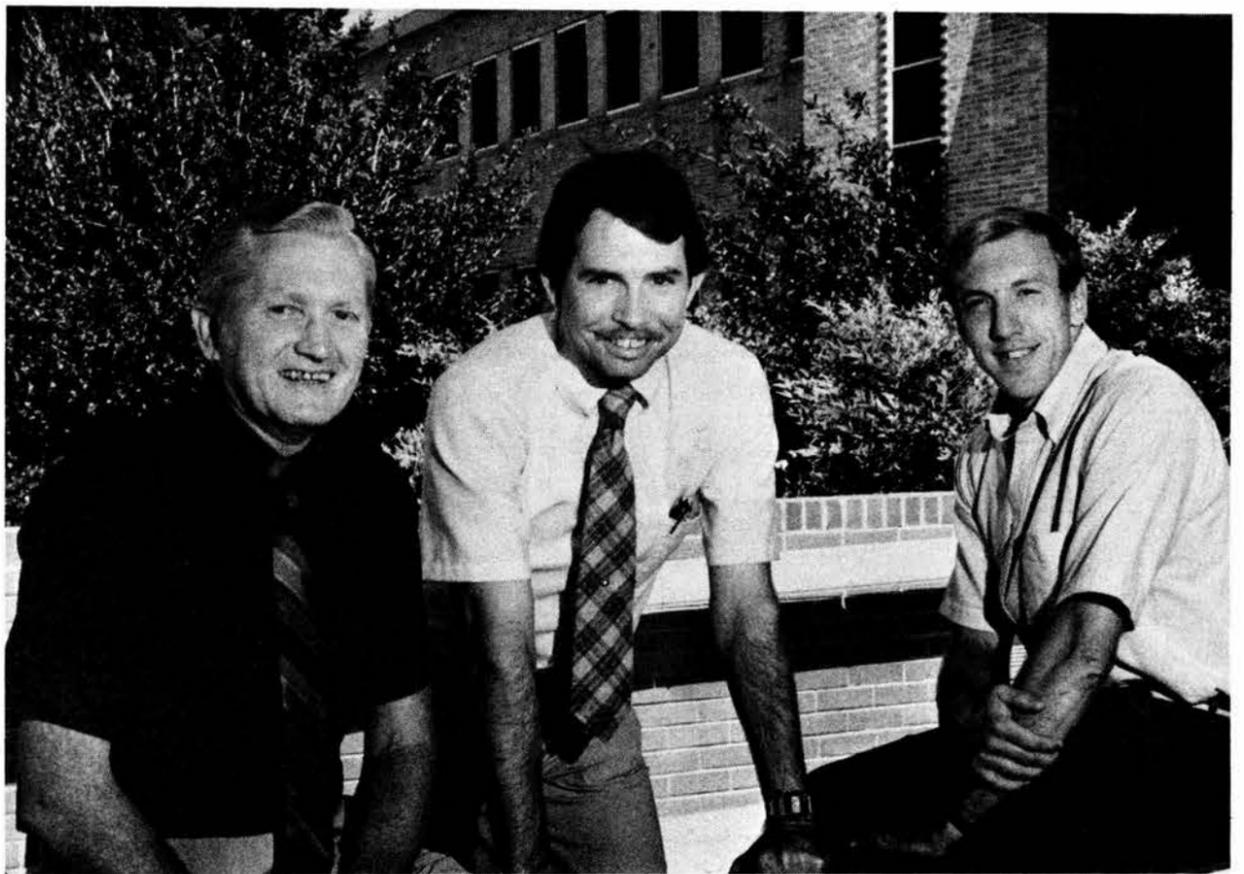
John is treasurer and a member of the Board of Directors of the Multiple Sclerosis Society; he was recently named to his second term on the Citizen's Advisory Group for the City of Albuquerque. John and his wife Barbara live in the NE heights.

\* \* \*

MICHAEL FLETCHER to supervisor of Systems Research Division V 315, effective June 18.

Michael has been a member of the technical staff in Systems Research Department 310 since coming to Sandia in June 1976.

He received a BS in physics from Trinity University (San Antonio) and his MS and PhD, also in physics, from Purdue University. He's a member of the American Physical Society and the American Association for the Advancement of Science. Mike enjoys skiing, bicycling, photography, and



JOHN WILLIAMS (2626), MIKE FLETCHER (315), and BILL LING (334)

fishing. He and his wife Sharon (7611) live in the NE heights.

\* \* \*

BILL LING to supervisor of Strategic Offense Division 334, effective April 9.

Since joining the Labs in April 1976, Bill has been a member of the technical staff in Systems Analysis Department 330.

Bill, a mathematician, earned a BA from

Amherst College (Mass.), MS from the University of Massachusetts, and PhD from Rensselaer Polytechnic Institute. He also attended the University of Uppsala (Sweden) for a year. Bill is a member of the American Nuclear Society. He enjoys biking, running, tennis, and squash. He and his wife Marguerite live in Tijeras.

## Colloquium Report

# Searching for Extrasolar Planets

To most people amateur astronomy means having a small telescope stashed away in the garage and, on occasion, taking it outdoors to view such familiar objects as the moon or Jupiter's satellites.

Graham Flint is obviously not a man to be satisfied with such a paltry definition. Recently he described how he built the J.R. Frost Observatory (named after a favorite physics teacher in Flint's native England) adjacent to his mountainside home on the western foothills of the Sandias. The project began five years ago.

Flint has built his observatory for a specific purpose: To conduct a search for other planetary systems. "There is circumstantial evidence for the existence of such systems around other stars," he says. "The strongest evidence is for F, G, and K stars. Our sun, a G star, is typical."

By concentrating on this type of specialized observation, the Frost Observatory will be a valuable scientific resource. The large university observatories both here and abroad have very crowded schedules, and they simply cannot allot the time necessary for the long-range observations and measurements that Flint will undertake.

Flint designed the telescope himself and, with a friend's help, polished the mirror on weekends. He says that a "combination of technical considerations, aesthetics, and an enthusiasm for gardening" led him to build

a three-story observatory. This places the telescope above most ground-level turbulence, and a glassed-in conservatory on the first floor provides protection for a large collection of potted plants during cold winter nights.

The telescope's operation and data collection, processing, and storage are controlled by a microcomputer which, together with the spectrometer and auxiliary equipment, is housed in a room of Flint's home. Incidentally, the entire system was assembled from surplus parts and components (Flint manages a high-energy-laser research lab for Martin Marietta on Kirtland). The observatory is described in greater detail in the May 1984 issue of *Sky and Telescope* (Graham Flint, "Nearing First Light at the J.R. Frost Observatory," p.p. 402-405).

Flint explains there are two basic techniques for detecting extrasolar planetary systems. Both exploit the gravitational influence such a system exerts on its parent star. The astrometric technique uses precision photography to measure perturbations in a star's proper motion. Flint's telescope relies on the Doppler principle to measure small changes in the star's radial velocity. This method requires an ultrastable spectrograph and a telescope of respectable aperture, but the local "seeing" and image quality of the telescope are less critical than for astrometric work. Furthermore, while

only relatively nearby stars can be studied with the astrometric method, the Doppler technique is independent of distance and thus allows more stars to be included in a planetary-search program.

The search for low-mass companions to solar-type stars will require observations made over many years. Only then can a strong statistical case be argued in favor of a given star's having such a companion. Flint is making his facility available to UNM and would like to hear from anyone willing to help in his project. If you are interested, call Grover Hughes at 5-1728.

## Welcome

### Albuquerque

Clorinda Berryman (3426)

Perry Horse (3522)

Jennifer Prairie (112)

Charles Schaub (1254)

### Illinois

Kenneth Greenberg (1126)

Louis Lai (7653)

John Pott (1522)

### Indiana

James Schutt (1513)

### Nebraska

Stephen Walcott (5112)

### New York

Paul Kiekel (1272)

### Oklahoma

Aaron Hillhouse (5111)

# feed back

**Q.** Is it possible for our lunch breaks to be changed from 30 minutes to either 45 or 60 minutes? Thirty minutes doesn't give us enough time to go anywhere for lunch. Usually, we end up staying at our desks, where sometimes a ringing phone needs answering, the copier machine needs tending, or someone brings work that needs explaining, etc. The Sandia cafeteria is off-limits to us as it takes longer than half an hour to walk there, have lunch, and return. Is it possible for those of us who need a break from our work environment during lunch to come in early and be allowed 45 minutes for lunch?

**A.** Currently, the answer to your question on increased flexibility of lunch periods is that it would not be feasible. Sandia reduced the lunch break to save energy and allow wider utilization of bus services and car pooling. These responses to energy concerns have proven to be beneficial to the Laboratories and its employees. Although the energy crunch is not felt to its former extent, the 30-minute lunch period will probably be continued because of the convenience of the 8 to 4:30 schedule to most Sandia employees.

J.R. Garcia - 3500

**Q.** The cafeteria has just placed itself out of my future. Today I had a plate of beef chop suey and a glass of water — \$2.65! At a local Chinese restaurant, the following meal is available for \$2.69: egg drop soup, fried noodles, sweet and sour pork, a gargantuan serving of excellent fried rice, egg roll, fortune cookie, and all the jasmine tea you can hold.

**A.** We regret the recent price increases. However, we determined that food costs increased approximately 5 percent during the 12-month period ending March 31, 1984, and the cafeteria labor costs have increased also. Because of these increases in costs, we increased the food prices by 5 percent (overall) during April. This was our only increase in prices in approximately one year.

R.V. Eldredge (3543), Chairman of the Food Committee, approves price increases proposed by the Cafeteria Manager.

Please call either him on 4-2739 or George Wayland (3543) on 4-6135 if you have any other questions.

J.R. Garcia - 3500

**Q.** Would it be possible to have a motorcycle parking area installed in the lot south of Bldg. 823 and east of the new Technology Transfer Center?

**A.** We currently have three motorcycle parking areas south of Bldg. 821, next to Bldg. 823. In May the parking areas were not full. If they become full, we will consider placing another motorcycle area south of Bldg. 823.

R.W. Hunnicutt - 3600



**HE:** YOU WANT TO ACT? **She:** Yes. **He:** Passionately? **She:** Yes. The "He" is retiree Bill Carstens, and the "She" is Gayle Giles-McIntyre. They're rehearsing *The Dresser*, the play that spawned the Oscar-nominated movie last year. Bill plays Sir, an aging Shakespearean actor looking for — but not finding — "a tranquil senility." His co-star is Norman, the dresser, played by Joe Brooks. Gayle plays Irene — and temptation. The director, Irene Winfield, has experience with *The Vortex* and with *Classics*. The play has its first New Mexico performance Sept. 7 and runs weekends through Sept. 23 at the Adobe Theatre in Corrales. Curtain at 8:30; reservations at 898-3323.



Here are some current volunteer opportunities for employees, retirees, and family members. If you would like more information, call Karen Shane (4-3268).

**GOVERNOR'S OFFICE OF VOLUNTEER SERVICES** has requested volunteers to escort the handicapped at the State Fair on Tuesday, Sept. 18. Lunch will be provided.

**ALBUQUERQUE HIGH SCHOOL'S FORUM IN CONTEMPORARY ISSUES IN SCIENCE** needs volunteers to work with students in researching and writing papers dealing with the impact of science and technology on society.

## ECP Salsa Contest

"You bring the salsa and we'll bring the chips." That's part of the deal being offered by the ECP Campaign Kick-off Committee. The rest of the deal is even better. The ECP Salsa Contest is part of the Country Western Hoedown to be held Oct. 3 on the Library Mall. All Sandians are invited to enter the contest. Bring a quart of your favorite salsa. Judges (to be announced next issue) will declare the winners and award prizes to the top three entries. Visitors to the Hoedown will then be invited to sample the chips and salsa.

Jan Clark (3418) is coordinating the contest. Send your entry to her by Sept. 21. Call Jan on 4-5387 for more information.

To: Jan Clark - 3418

Yes, I wish to compete in the ECP Salsa Contest.

Name: \_\_\_\_\_

Org.: \_\_\_\_\_

Phone: \_\_\_\_\_

## Take Note

South 14 Bookshelf — For several months past, the South 14 Village Project (a charity program run by Sandians) has offered for sale new books published by UNM Press. A short review on each one was published in the LAB NEWS. A few of these books are still available at the LAB NEWS office in Bldg. 814:

*New Mexico Place Names* by Pearce, \$6.95;  
*Guide to New Mexico Mountains* by Ungnade, \$8.95;  
*Buckboard Days* by Poe, \$9.95;  
*A Brief History of New Mexico* by Jenkins, \$4.95;  
*Albuquerque, A Narrative History* by Simmons, \$17.50;  
*New Mexico, the Shining Land* by Sinclair, \$10.95;  
*People of the Sun* by Simmons, \$14.95;  
*Richard Wetherill: Anasazi* by McNitt, \$8.95;  
*The Aficionado's Southwestern Cooking* by Johnson, \$5.95;  
*The California Column in New Mexico* by Miller, \$9.95;  
*New Mexicans I Know: Memoirs 1892-1969* by Keleher, \$9.95;  
*Hikers and Climbers Guide to the Sandias* by Hill, \$9.95.

Other books for sale include *Project W-47* by retired Sandian Les Rowe, \$5.95; *More Time Than Money — A Travel Kit for Leisurely, Reasonable Travel Abroad* by former Sandian Cherry Burns, \$5; and *Ski Touring in Northern New Mexico* by Sam Beard (1633), \$4.95.

\* \* \*

The American Adoption Congress Region 9 Fall Conference will be held at the Clarion Four Seasons Hotel in Albuquerque, Sept. 21-23. Sponsored by Operation Identity, the conference includes lectures by experts in areas related to adoption, panel discussions, and open question-and-answer periods. The keynote address will be given by Dr. Thomas Bouchard on "A Study of Twins Raised Apart." For a copy of the agenda and registration form, stop by the LAB NEWS office, Bldg. 814.

\* \* \*

Only 116 singing days until Christmas! The Albuquerque Civic Chorus will begin rehearsals for its Christmas Concert on Sept. 4. Registration begins at 6:30 at St. John's Episcopal Cathedral, 3128 Silver SW. Registration is open to the public; fees include a \$5 music deposit and \$15 dues. For more information call Paul Brannon, 293-7529.

\* \* \*

The Flea Market at the KAFB East Parade Grounds will be held on Labor Day, Sept. 3 (our last issue had an incorrect date). Call Que Pasa Recreation Center, 844-5420, for more information.

\* \* \*

The Friends of the Indian Pueblo Cultural Center are opening their membership drive with a Las Vegas Night party on Sept. 7 from 8 to 10 p.m. in the Pueblo Indian Museum. The party will be followed by an auction, and door prize and raffle drawings. For more information, contact Gilda Floersheimer, 892-5800.

\* \* \*



MOST POPULAR EVENT at the Women's Career Conference was a panel discussion of "Women in Management and Supervision"; it was not entirely a somber affair. Panelists were (from left) Kay Hays, supervisor of Cleaning and Coating Technology Division 1831; Danny Brown, manager of Technical Library Department 3140; moderator Yolanda Padilla-Vigil (3511), Women's Program Coordinator; Dr. Judy Ewing, manager of Industrial Medicine and Clinical Psychology Department 3330; and Sandy Borgrink, supervisor of Community Relations Division 3163.

The Sandia Mountain Cloggers (hillbilly tap dancing) will offer lessons at the YWCA (4th & Lead SW) beginning Oct. 2 from 7 to 8:30 p.m. (adults \$1.50, children .75). For more information, contact Dennis (2121) or Doris Huffman, 296-0453.

\* \* \*

Ted Simmons (3312) was the team leader of a recent rescue operation conducted by the Albuquerque Mountain Rescue Council (AMRC). A 76-year-old man had become lost while picking mushrooms in the Jemez Mountains near Polvadera Peak. Ted and his team reached the victim about an hour before sunset. He was dehydrated, weak, and fatigued. They set up an overnight camp and the man was evacuated the following morning by National Guard helicopter.

Ted has been a member of AMRC for eight years. Gary Tisone (1244) is the current president of the group.

\* \* \*

The American Lung Association of NM is sponsoring a six-week "Freedom From Smoking" clinic from 7 to 9 p.m. on Tuesdays, beginning Sept. 4. Enrollment is limited, and pre-registration is required. The cost is \$35. For more information, call the Lung Association on 265-0732.

\* \* \*

A course in advanced conversational German begins Sept. 5. Joan Winter is the instructor; classes meet from noon to 1 p.m. each Wednesday in the Bldg. 803 conference room. For more information, call Barry Marder (4-9829).

\* \* \*

The fall session of L'Ecole de L'Alliance Francaise D'Albuquerque begins Sept. 10. The classes, two hours a week for 12 weeks, include conversational French all levels, French for travelers, business French, a phonetics class, and French cuisine. Day or evening classes are offered. Deadline for registration is Sept. 8. For more information, call Christiane Vigil (294-5957) or UNM Department of Modern and Classical Languages.

\* \* \*

"The Best Investment Around" is the provocative title of a speech by retiree Alan Pope at the Sept. 5 meeting of the Alber-

## Career Conference Succeeds

Some 200 Sandia women attended the Women's Career Conference at the Convention Center last week. The women were welcomed by President Dacey. He noted that "Anyone who wishes a successful career must develop a plan to achieve that goal."

The keynote speaker, Mari-Luci Jaramillo, associate dean of Education, UNM, and former ambassador to Honduras, provided practical advice from her own professional experiences.

Yolanda Padilla-Vigil (3511), chair of the Women's Program committee that organized the conference, reported that, "Each of the two sessions of the five workshops and the panel discussion was well attended, and the no-host hospitality hour that followed the conference provided an opportunity to establish networks that could lead to new career paths. This first conference of its kind at Sandia was definitely successful."

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que Section of the American Institute of Aeronautics and Astronautics. Alan, an AIAA Fellow, has been an aerospace engineer for more than 50 years. But he's also a noted investments expert and has published several books on the subject. The 5 p.m. meeting is \$3 for members and guests; call Craig Jones on 4-0119 for reservations.

\* \* \*

Purchasing (3700) recently held a day-long class, "Purchasing Overview," for 40 employees. This class as well as several others relating to Purchasing are part of a training program offered to 3700. It is also available to other Sandia organizations. If interested, contact Marguerite Kaminski (3732), 6-5425.

# Events Calendar

Sept. 1-3 — Canadian Hoop Dancer, 1 and 3 p.m., Indian Pueblo Cultural Center.

Sept. 2 — San Esteban Feast Day: Corn dance, other dances and ceremonies, Acoma Pueblo, 1-552-6604.

Sept. 2 — NM Museum of Natural History Children's Program: lecture and demonstration, Jeremiah Johnson, "Birds of Prey"; Longfellow Elementary School, 400 Edith Blvd. NE; \$1 children/\$2 adults; 2 p.m.

Sept. 4 — San Agustin Feast Day, Isleta Pueblo, 869-3111.

Sept. 7-9 — Fiesta de Santa Fe: 272nd year commemorating the 1692-93 resettlement of NM by Gen. Don Diego de Vargas. Burning of Zozobra, historical pageantry, religious observations, and arts and crafts show. Information, 1-988-3044, Santa Fe.

Sept. 7-23 — NM State Fair, 265-1791.

Sept. 8 — KiMo Show Time: The Brass Band and the NM Symphony Orchestra, 8 p.m., KiMo.



## Death

Henry Scheller of Project Design Definition Division IV 7655 died Aug. 9 after a long illness. He was 55.

He had worked at the Labs since August 1959.

Survivors include his wife, two daughters, and a son.

## TV Education Needs Help in Program Selection

A telecommunications system network is now in place at UNM (LAB NEWS, July 6, 1984), offering live satellite continuing education courses provided by the National University Teleconference Network. Rupert Trujillo, dean of the Division of Continuing Education and Community Services, asks the public to participate in the selection of programs to be used. Suicide, sexual abuse of children, and political campaign management are among programs being considered for broadcast during the next several months.

Among other topics being offered by the network during the 1984-85 academic year are "Project Management II — Team Building," "The Technology of Quality: Theory Sigma," "Survey of Integrated Manufacturing Systems — Concepts and Programs," "Technology Update for 1985," "Strength Power Symposium: Performance and Health Improvement Through Weight Training," "Designing for Manufacturability," "Geophysics," and "Educational Software: Identification, Evaluation, Integration."

Anyone interested in helping the division decide on this year's programming can call 277-3841 or visit the office at 805 Yale NE.



EXHIBIT IN PROGRESS — Andy Landis of Community Relations Division 3163 works on Sandia's State Fair exhibit that will feature the Microelectronics organization 2100 and the work of the Center for Radiation Hardened Microelectronics. The exhibit opens with the gates of the State Fair on Sept. 7. It will be in the Science, Engineering, and Energy building on the Fair's main street and open from 9 a.m. to 9 p.m. through Sept. 23. Joe Laval (3163) is exhibit coordinator with Bert Lindsay (2101), microelectronics consultant. The exhibit was designed by Tech Art; many craftsmen from the wood, metal, plastics, and paint shops contributed. Graphics were provided by Division 7632; photography by Photo Services Section 3155-2.



TWO KEY STAFF MEMBERS of the House Appropriations Committee's energy and water development subcommittee visited the Labs earlier this month. They reviewed all the Sandia programs funded by the subcommittee — 96 percent of Sandia's funding, including weapons, is channeled through that subcommittee. Here, Pace VanDevender (left), director of Pulsed Power Sciences 1200, discusses particle beam fusion with Aaron Edmondson and Hunter Spillan (right).

## Congratulations

Hank Ortega (3423) and Mary Lujan (3435), married in Albuquerque, Aug. 18.

Margie Yost (1822) and Al Lappin (6331), married in Albuquerque, Aug. 23.

Therese Barela (5247) and Richard Eisold (5234), married in Albuquerque, Aug. 18.

## Sympathy

To Gloria Padilla (2641) on the death of her mother in Albuquerque, Aug. 12.

To Gary Phipps (7566) on the death of his mother-in-law in Mitchell, Ind., Aug. 23

To Juliette Wolff (3412) on the death of her father in Albuquerque, Aug. 16.



BILL DAVEY (1533) takes a day hike in the Chamonix-Mont Blanc area before setting out for Zermatt and the Matterhorn.



SILHOUETTED against the Alpine scenery, Bill Davey (1533) works his way along *La Haute Route* from Chamonix, France, to Zermatt, Switzerland. Bill planned and organized the 10-day hike for the New Mexico Mountain Club.

### Unusual Vacation

## Alpine Hiking Has Its Ups and Downs

Given today's trend toward keeping physically fit, a 100-mile walk over several days doesn't seem like much, does it? Or does it? Suppose you're walking 100 miles up and down mountain terrain in less than 10 days. That's quite an accomplishment even for a fitness freak.

Bill Davey (1533), together with fellow Sandians John Brammer (2534) and Gale (7556) and Mac (5121) Weaver, accomplished that feat last July in the French and Swiss Alps.

The trip was sponsored by the New Mexico Mountain Club. Bill is the outing chairman, so he planned and organized the trip. In all, 14 people, ranging in age from their late 20s to early 60s, went. The trip was advertised as "a hike from the base of Mont Blanc to the base of the Matterhorn." Mont Blanc is near Chamonix, France, the Matterhorn near Zermatt, Switzerland.

Bill began planning the trip a year in advance. He ordered detailed topographical maps from a Swiss tourist office and a guidebook to the area from the Sierra Club. Then he set about looking for cheap air fares (see *Logistics* below).

Before leaving, the group, each with a full pack, took a training hike in the Sandias. Even though all were experienced hikers, "they screamed bloody murder about that hike," according to Bill.

"It was harder than what we did in Switzerland," Bill admits. "But we didn't lose anyone over there."

After flying over on either charters or scheduled air lines, the group met in Chamonix where they stayed for three days, taking day hikes in the surrounding mountains. Two actually climbed Mont Blanc without a guide.

Bill divided the group into two smaller groups for accommodation purposes. "Fourteen hikers descending — literally — on an inn in a small mountain village would have been impossible to accommodate," Bill says. There were five men and two women in each group traveling one day apart.

The hikers walked along *La Haute Route* (the high road) 100 miles to Zermatt in 10

days. After the first two days, they crossed over into Switzerland and spent most of their time in Valais, a French-speaking canton.

"You really needed French on this trip because the people in mountain villages don't know any English at all," Bill says. Having spent his junior year in college at the Sorbonne in Paris, Bill had no problem with the language.

They hiked about 10 miles a day. "Sometimes we had over 3000 feet of elevation gains over mountain passes," Bill says. Because there was no technical climbing, the group had no need to carry heavy technical equipment. "Neither did we have to carry tents, bedrolls, cooking equipment, and, most of the time, food," Bill explains.

Each night they stayed in mountain village inns or a Swiss Alpine Club hut. "The huts are remote, but they're spectacular to stay in — beautiful views of mountains and glaciers," Bill says.

"One day we had to cross two glaciers to get to a hut. The last of the group got in at 10:30 p.m. The Swiss huts are very primitive, much more so than those in Austria and Germany. Some have hut wardens who sell food and collect payment for use of the huts. Others are left open and unattended and operate on the honor system. You leave your money in a box and clean up after yourselves.

"We found Switzerland to be remarkably tidy and neat even in the remotest places," Bill says.

The group knew in advance when they would be staying in a hut without a warden and took food along to prepare. "The huts were marked on the maps along with the trails, so it was fairly easy to plan," Bill explains.

"The absolutely incredible thing about the trip was that it didn't rain a single day! Here we'd brought all this rain equipment and we didn't need it at all.

"We couldn't believe some of the things we saw," Bill continues. "We even saw a proverbial 'old man of the mountain' with a long white beard running down the mountain using two ski poles for balance.

"The food was fabulous. You could eat a different kind of chocolate and a different kind of cheese every day. We [Americans] just think about that holey Swiss cheese. There are many, many more varieties. The desserts were fabulous, too: the pastries, the ice cream.

"And it was almost uncanny: every trail would lead to some place that sold beer."

The food and the exercise must have balanced — Bill says he didn't gain any weight.

After their arrival in Zermatt, the hikers spent another three or four days taking day hikes in the area. A few of the more daring took a guided hike up the Matterhorn.

An inveterate outdoorsman, Bill left last Saturday for three weeks of hiking in England, Scotland, and Wales. He's already practicing for next year's vacation, a canoeing trip through the boundary waters of Minnesota.

Future vacation plans include a hike up Mt. Kilimanjaro in East Africa and a tour of the Nile Valley.

*Logistics:* Bill did all the planning himself. Airfare from Albuquerque to either Geneva or Zurich was \$800 or \$900 for charter or scheduled airline, respectively. Day-to-day costs varied widely, but \$20 per day was enough. Accommodations were about \$10 per night in Switzerland, cheaper in France. Bill figures a total of \$400 to \$500 for land costs.

### **Sept. 8 UNM Football Tickets Available at Discount Price**

The UNM Athletic Department has declared Sept. 8 when the Lobos face New Mexico State a special "Sandia Night." Sandians may save a few bucks on the price of admission. Regular \$9 tickets are available for \$6 at the Coronado Club office. The seats are reserved in Section CC on the east side of the stadium. Deadline to pick up the tickets is 5 p.m. Sept. 5.

## Skating Away From It All

Trying to get around in shoes with wheels attached can be an upsetting experience for most of us. But for Debbie Hay (22), rollerskating is relaxation.

"It's a total release. To me it's fun; it's not work." Debbie spends 8-10 hours a week practicing. "That's not much," she points out, "not compared to those I compete against on the national level."

By winning a pre-regional meet, Debbie qualified for a regional meet at Ft. Worth in mid-July. "I get nervous, real nervous, before any meet — but especially at regionals, because the pressure is on to make it to the nationals. I tell myself not to get nervous, but that's easier said than done."

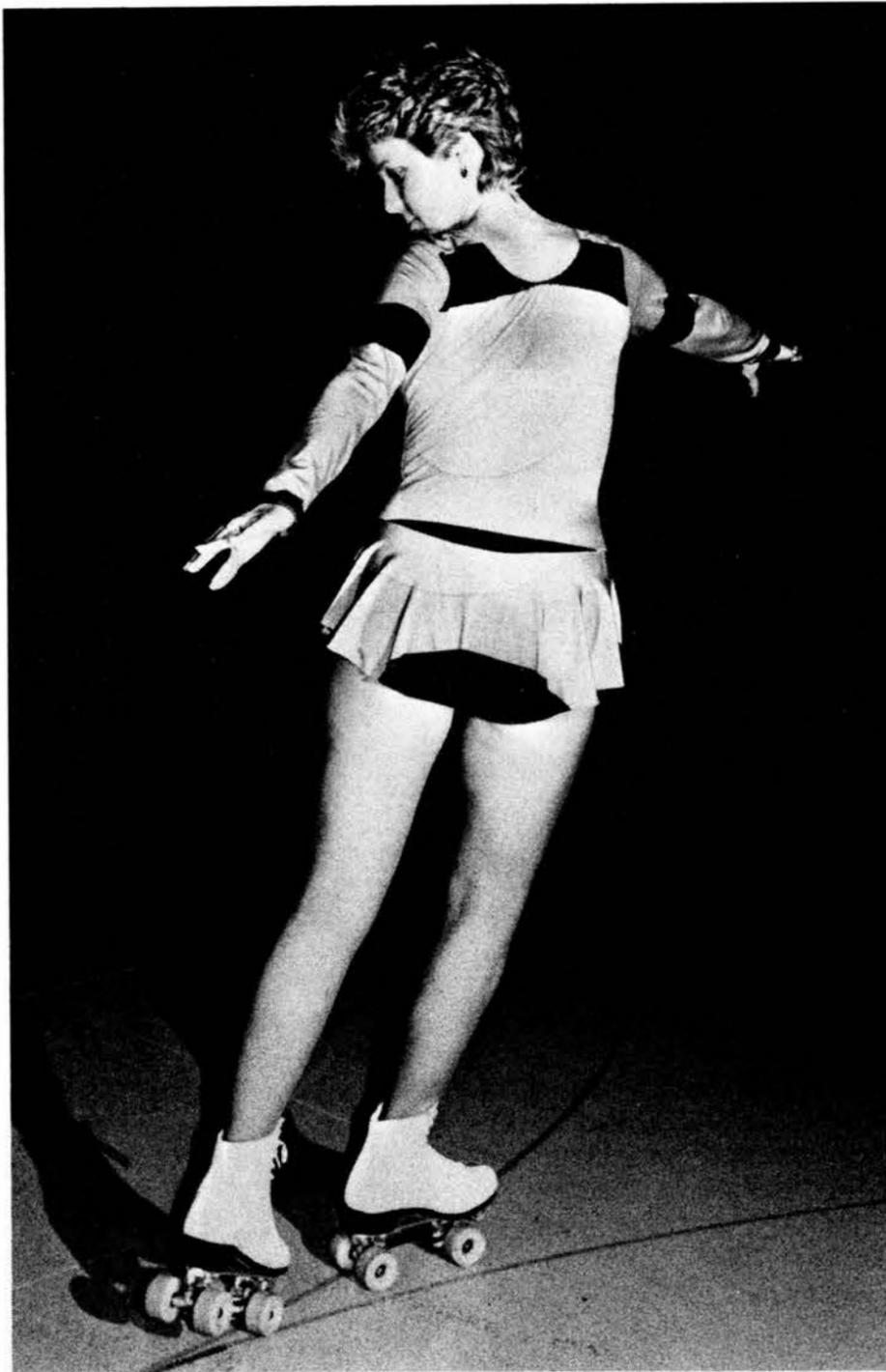
Nervous or not, Debbie placed second.

On to the nationals at Lincoln, Neb., in late July — with qualms. Debbie realized she would be skating against women who practice 16 hours a day, more than she practices in a week. "They weren't working," Debbie notes, "and besides, skating's not my top priority; my family comes first. I didn't do as well at nationals, but that was okay because I was pleased at how I skated."

Debbie had returned to competition last January after being out of the sport for about 10 years because of a knee injury incurred while skating. When she saw that Kara, her daughter, was interested, and since she had to be at the meets anyway, she decided she might as well take it up again.

Debbie feels a certain amount of self pride. "Skaters feel good about what they're doing. Skating kept me out of trouble when I was in high school," says Debbie, "I got a lot of self-assurance."

She feels that skating is a good sport for children of all ages. Kara, age 6, skated her first meet at the age of 3. It is Kara's third competitive season. She and her dance partner have to skate against competitors 12 and under, because not enough 6-year-olds skate. "Kara placed third in regionals," says the proud mother, "but it was in an event that was not qualifying for nationals." Debbie also has a son, Donnie, age



DEBBIE HAY'S SKATING turns time management into a juggling act.

3; he will probably compete in the spring.

Debbie believes that skating gives children a lot of self-confidence. In the free-style event, they are out on the floor all alone with hundreds of people watching them. Debbie feels that skating can help make a well-rounded person: "Nine out of ten of them are not going to be self-conscious about getting up in front of people and giving a book report in school." She feels, however, that skating should not be their whole life. "I'm very much opposed to parents' forcing their kids and living their own lives in their kids. I would probably go

the other way to make sure we don't do that."

Debbie's husband Ray is a professional skater and Debbie's coach; he'd like her to practice more. Debbie tells him that she'd be glad to, although it takes away from time that she should be doing things around the house, studying for her courses at UNM, or taking care of the children. So he in turn gets to do many chores at home so Debbie can have some time to skate.

"Skating's fun," she concludes. "When it stops being fun, I won't skate."

## Fun & Games

**Golf** — Winners of SGA's Capitol Classic played Aug. 17 at the Sante Fe Country Club were (A Flight tie) Milt Madsen (5256) and Horace Lucero (1632) with Mike Quinlan (3642) and Tommy Ashwill (6225). Second place in A Flight went to Leon Chapman and Ron Rodeman (7543). First place in B Flight was taken by Daniel Buller (1111) and William Curtis (1126) while Jerome Ford (3154) and Gerald Ford (ret.) placed second.

The SGA Cup tournament will be played Sept. 15-16 at UNM South and Los Altos. Contact Kevin Linker (6227) for additional information.

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**Tennis** — Carla Rachkowski (daughter of Ray, ret.) took top spot in the recent Sandia Tennis Association's women's singles

tournament. Herman Smith (DOE) was the men's winner.

STA is conducting a tournament for men and women singles and mixed doubles during the Labor Day holiday. Games will be played on the Coronado Club courts. Open to all Sandia employees, their spouses and dependents, tournament registration is through Tim Mooney (5144), tourney chairman.

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**Athletics** — How about an octathlon plus? The second annual Superstar Competition, sponsored by the City Parks and Recreation Department, is Sept. 15-23. Each participant will compete in eight of these eleven events — golf, raquetball, swimming, bowling, running, free-throw shooting, table tennis, pull-ups, bench

press, softball hitting, and punt/pass/kick — plus an obstacle course.

Three classes: open (18 and up), senior (35 and up), and master (45 and up). Men's and women's sections in each class. Free T-shirts. And more than \$3600 in donated prizes to top three finishers in each of the six divisions. Register at the Civic Auditorium between 8 and 5 Monday through Friday. No registration after Sept. 10. Fee is \$20. All contestants must attend a meeting on the evening of Sept. 14. More details at registration.

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**Soccer** — Anyone interested in recreational soccer, please call Mike Edenburn, 4-4003, right away. Games will be played after work in September and October.

# MILEPOSTS

## LAB NEWS

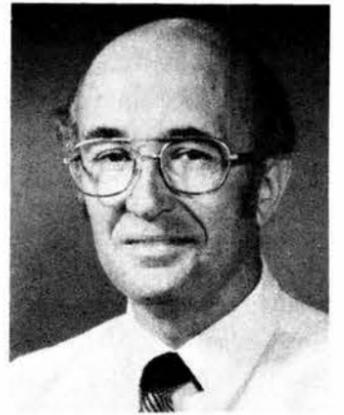
AUGUST 1984



Phil Class (7531) 25



Karen Andersen (1520) 10



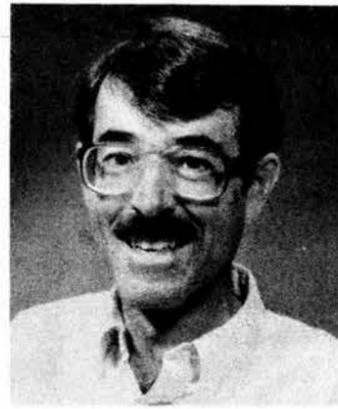
Ron Detry (2600) 15



Bob Corey (3742) 30



Amadeo Aragon (3613) 30



Eldon Boes (6226) 10



Sharla Bertram (6334) 15



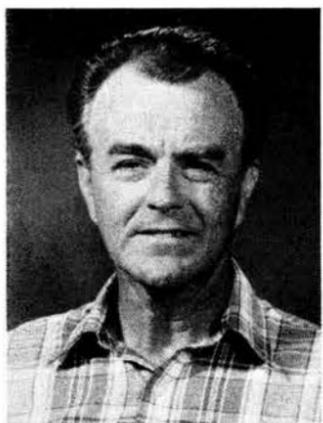
Vince Dandini (6445) 10



Wendell Weart (6330) 25



Marti Bell (5320) 10



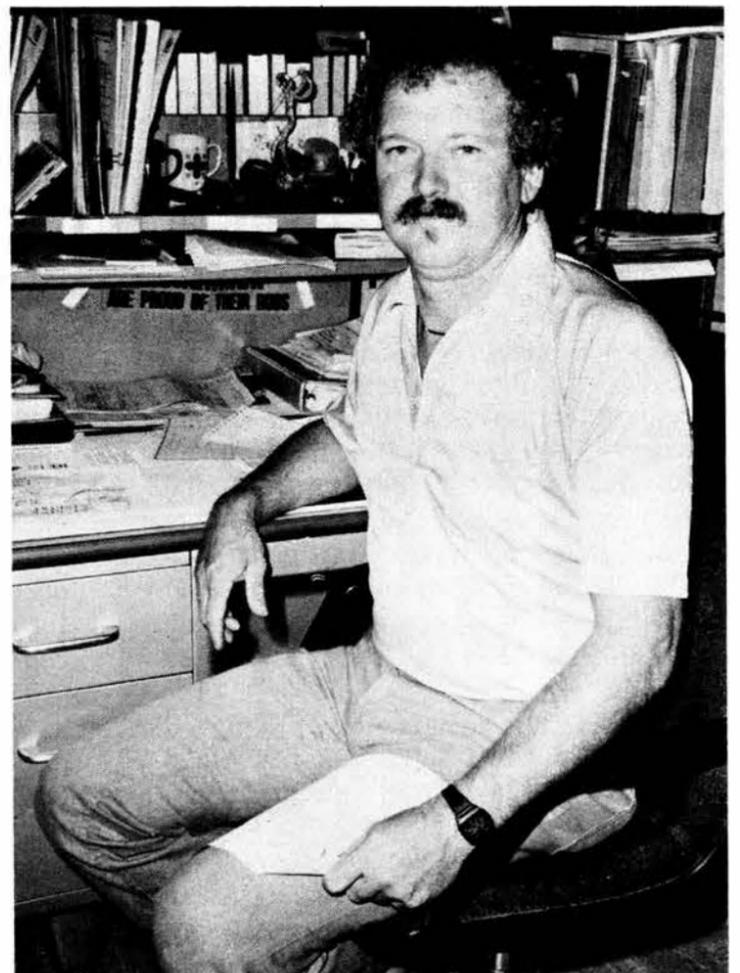
Roy Hunter (154) 25



Gene Koenig (7541) 25



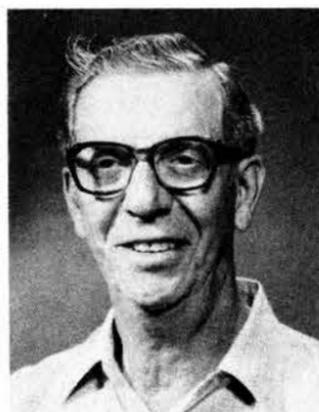
Antonio Garcia (7482) 35



Ivars Gals (7124) 20



Mike McLaughlin (1200A) 30



Ken Williams (2542) 35



Frank Biggs (7112) 25



TWO SENATORS, John Glenn (Ohio) and Edward Zorinsky (Nebraska), became acquainted with Sandia's work in high technology and arms control last week. Here, Bruce Miller, manager of Directed Energy Research Department 1270, uses a model to explain the theories underlying particle beam fusion accelerators. From left, Miller; James Woolsey, former member of the Scowcroft Commission and former Undersecretary of the Navy; Phil Upschulte, Glenn's legislative assistant; Thomas Stafford, retired Air Force lieutenant general; Senator Zorinsky; Senator Glenn; Leonard Weiss, minority staff director of the Senate Government Affairs Committee's subcommittee on energy, nuclear proliferation, and government resources; Tom Cook, 20; and William Hoehn, Jr., professional staff member of the Senate Armed Services Committee. Not shown, Ray Romatowski, manager of DOE/AL.

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**Deadline: Friday noon before week of publication unless changed by holiday. Mail to: Div. 3162.**

**RULES**

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2. One ad per issue per category.
3. Submit in writing. No phone-ins.
4. Use home telephone numbers.
5. For active and retired Sandians and DOE employees.
6. No commercial ads, please.
7. No more than two insertions of same ad.
8. Include name and organization.
9. Housing listed here for sale is available for occupancy without regard to race, creed, color, or national origin.

**MISCELLANEOUS**

TYPEWRITER, electric, portable Royal Medallion II, \$195. Garcia, 298-7340.

FLUTE, Yamaha w/case, \$175. Wickesberg, 294-8334.

VIOLA, Roth 15" (full size), \$450. Hadley, 821-7324

SEALY Imperial Q-size bed w/frame, \$150; Raleigh 10-spd., \$40; baby high chair, swing, & walker. Roesch, 296-8248.

PENTAX 150 telephoto lens, screw mount, best reasonable offer. Simonson, 296-2713.

ALTAIR 8800B, 57K, many S100 boards, 33ASR, dual cassette drive, 2 part-built floppy drives, documentation, sell all or part, Lambert, 293-8825.

LIGHTING fixtures, modern: dining room chandelier, \$70; kitchen, \$15; bdr, or hall, \$10; French Provincial entrance hall, \$20. Crowther, 821-0172.

CAMPER, 9 1/2' cabover, refrigerator (propane/110V), propane heater, Porta potti, jacks, \$1200. Weatherbee, 869-2849.

SEARS gym set, \$50. Boling, 298-8141.

WINDOWS: STEEL SASH, 5 63"x63", \$12 ea.; 6 63"x45", \$10 ea. Tucker, 877-1140.

TWO GR-70-14 tires, 7-ply, steel belted, \$10 ea. Baxter, 344-7601.

CHAIN LINK fence: 6x40 (\$2/ft.) & 3x36 (\$1/ft.), w/some posts & fittings. Brandon, 836-5621.

SLINGERLAND snare drum set, w/case; Wurliizer spinet. Olson, 989-8909.

FREE to good home, small, red/black spayed female dog, 20 lbs., 3 yrs old. Smith, 471-3478.

OBOE & student clarinet. Blottner, 298-9459.

SHOP manuals, '72 Ford; approx. 40' fencing, 4' high, scalloped top, \$15. Navratil, 293-5527.

BIRD CAGES, lg. wrought iron cage w/stand, \$25, small cage, \$5. Kolb, 822-1918.

AMATEUR radio equip.: Collins S-line (3251, 75S3, PS), \$650; ICOM

225 2m rig, \$250; SB230 linear amp, \$400. Graham, 298-7005.

PENNEY's 5-spd. bicycle, \$50; AM radio from Plymouth Champ, \$10; louvered screen door, 31 1/2x81 w/hardware, \$50. Moyer, 881-3879.

FRONT axle '78 Blazer w/spring, steering arm, stabilizer, 4-wd, full time 373 gear ratio, \$450; bucket seats, \$100. Benton, 877-2473.

TRUMPET, Yamaha w/case, \$100; white fiberglass shell for LWB fleet-side pickup, \$350; Husky 360 enduro motorcycle, \$250. Ferguson, 266-4769.

WASHER & dryer, \$125 or \$75 ea.; garage door, 7x16, \$75; trade for, horse hay, grain, animals, or small saddle. Lackey, 898-6638.

MOTORCYCLE trailer, 3 rails, 2 w/ramps, \$250. Hesch, 268-6122.

VIOLIN, Roth full size, horse hair bow, appraised \$200. Barr, 884-4582.

SKI equipment: PRE 1600 & 1200 Rossignol STs, mounted w/280 bindings; men's boots, Raichle & Nordica, used 1 yr. Alexander, 883-0487.

AKC labrador retrievers, championship breeding, sire & dam OFA certified, \$250 or negotiable. Worrrell, 299-0381.

COMPUTER monitor, 12" diag. high res. amber screen, \$65; classical guitar, TAMA TC-8, \$200; R. Shack SA-10 stereo amp, \$15. Miller, 242-1894.

.357 MAGNUM stainless steel Ruger Security Six revolver w/6" bbl., \$195 firm. Martegane, 884-4643.

BUNDY trumpet, 1 yr. old, \$225, includes cleaning brushes & music books. Knapp, 294-6359.

CABOVER camper jacks, 1 pr., \$100 firm; new Port-A-Potty, \$40. Menschel, 892-6475.

DINING table w/benches, picnic style, walnut stain, \$125; 4 DR chairs; B/W TV; hanging lamp. best offer. Archuleta, 296-7244 after 5.

SINGLE grave, Sunset Memorial Park, Block 18, Lot 183, value \$600, asking \$525. Write Elzie Greene, Rt. 2, Clinton, Ark. 72301.

13" VIOLA or 3/4 violin w/bow & case, \$200. Widman, 293-7279.

6' SLIDING glass patio door, brown aluminum, \$75 OBO; matching sofa & loveseat, gold/green fabric. Evans, 299-7105.

SCREEN DOOR w/all hardware, 32x80, \$30; twin beds, complete, dresser w/mirror, white, Bassett, \$325. Kohut, 884-1405.

SLIDING glass patio doors w/screen \$55; alum. stormdoor, 32", new, \$32; window screens; 4' fluorescent light fixtures. Aragon, 881-4795.

GREAT DANES, 6 wks., blue or black, males & females, all w/white markings, 1st shots given, \$100. Ellis, 869-3582 or 869-3872 after 5:15.

FIESTA DRESS, Jeanette original, sz. 16-18, cream & brown w/gold trim, \$40 OBO. Drozdick, 298-9244.

STEREO AM/FM cassette, 8-track,

Penneys' manual phono, \$75. Widenhoefer, 298-2510.

HANGING fireplace, ski lodge style, 360 degree screen, 37" dia., 57" ht., black, 4 suspension chains, \$330. Talbert, 298-9036.

'78 FORD 400M engine, 36K miles, \$400 OBO. Campbell, 294-6000.

KODAK Trilite Instamatic 18 camera, uses C110 film w/15 GE flip flash packs, \$20. Hochrein, 299-5225.

SOFA bed, queen, brown, \$175 or trade for nice love seat; Grundig stereo, \$50; Valley trailer hitch, \$60. Eversgerd, 897-0544.

TENT, 8x10 Coleman, floor, exterior frame; compact refrigerator; roll-away bed, innerspring mattress. Tufts, 255-9663.

FREEZER, upright, 16 cu. ft., avocado color, best offer. Miyoshi, 821-9118.

17 cu. ft. GE refrig., 2-dr, white, you pick up, \$225. Duvall, 881-4406 after 5.

**TRANSPORTATION**

'76 BUICK Skylark, 64K miles, PS, PB, AM/FM/cass., AC, \$1400. Duffy, 892-1156 after 6.

'78 DATSUN 510, 4-cyl., 79K miles, \$1795. Ulibarri, 883-2848.

'67 MGB roadster, bright red, completely restored, hardtop & soft top, \$3550. Roseth, 822-0063.

LOWE 14' fishing boat, '72 Mercury, 9 1/2 HP, Dilly tilt trailer, life jackets, extinguisher, anchors, safety rope, pillows, \$1550. Osburn, 299-7640.

'78 LAVERDA 1000 Silver Jarama motorcycle, 12K miles, \$2500. Wolf, 298-6394.

'80 HONDA Prelude, 52K miles, AT, AC, AM/FM, \$5000. O'Hare, 1-864-3474.

'77 HONDA Supersport, 400CC, 4-cyl., 18K miles, best reasonable offer. Romero, 888-4632.

'70 CHEVROLET Suburban, through diagnostic clinic — all defects corrected. Burch, 299-1972.

'81 FORD 4x4 F250, LWB, PS, PB, 2 tanks, new tires, \$7400; '81 Yamaha TT250; '80 Suzuki RM50. Moss, 294-7372, 888-4955 eve.

'72 MERCURY Monterey, 400CID, 4dr-HT, AT, AM, \$440 OBO. Walker, 821-0708 after 6.

'82 KAWASAKI, KZCSR305, 3400 miles, luggage rack, case saver, adult ridden, \$775. Conrad, 298-2691.

'79 HONDA CM400T, adult ridden, \$800 OBO. Barr, 821-3825.

BIKE, 27" 12-spd., 19" Mixte frame, straight handlebars, \$50. Rosenberg, 296-1346 or 888-4736.

COLEMAN CRAWDAD boat, new, never used, some assembly required, \$375. Whitehead, 292-1604 after 5.

'66 VW bug, needs engine, \$800 negotiable. Fowler, 247-9305 after 5.

'81 HONDA CX500D, crashbars, luggage rack, cover, service manual, low mileage, \$1450 OBO. Zirzow,

298-1479.

'66 PORSCHE 912, rust free, over 30 mpg highway, \$7500. Hill, 299-0019.

'83 HONDA Accord LX Hatchback, AT, AC, PS, AM/FM cassette, lt. blue, many extras. Pilat, 292-4727.

'73 DATSUN, rebuilt car., 4-spd., \$1000 OBO. Swain, 265-0098

'83 TOYOTA pickup, long bed, 5-spd., AM/FM radio, radial tires, 9K miles, \$6300. Coughenour, 883-6532.

'74 CHEVROLET 3/4 ton, 4x4 Suburban, dual air, PS, PB, rebuilt engine, 9-pass. trailer special, needs paint, \$2795. Nogales, 268-8487.

'74 CADILLAC, Cp. DeVille, white, white leather seats, AM/FM/8TK, 83K miles, all accessories, Book \$2730, \$2300. Trump, 299-5162.

'74 FORD pickup F-150, 302, 3-spd., black, camper shell, headers, 4ll rear end, w/Posi-Trac., \$2300 OBO. Molina, 299-8718.

'82 KAWASAKI GPZ-550, 2500 miles, eclipse tank bag, heated grips, helmet, lock, extras, warranty. Richey, 268-7620 ans. machine after 5.

'74 AUDI FOX, \$1200. Hayes, 281-9282.

'81 HONDA XL500S, street-legal Enduro, adult-ridden, 4100 miles, \$1150, will consider trade for Magna. Schkade, 292-5126.

'83 TOYOTA pickup, 4-spd., 7800 miles, \$6200 OBO. Scott, 299-0738 after 6.

'83 TOYOTA Tercel 4-wd wagon, tape deck, 5-spd. trans., \$7400. McConahy, 265-1198.

'81 BUICK Century, V6, AT, AC, PS, PB, cruise control, \$5600. Eckelmeyer, 296-2148.

'80 BUICK CENTURY stn. wgn., V6 engine, AC, AT, PB, PS, AM/FM stereo, luggage rack, \$4500 OBO. Daniel, 821-4910.

'78 KZ1000 full dress, many extras, 18K miles, \$1485 OBO. Patton, 877-2828.

'71 CHEVY pickup, deluxe interior pkg., AT, PS, PB, sliding rear window, aux. fuel tanks, \$1400. Fleming, 265-4277.

'66 PONTIAC Grand Prix, 1 owner, 88K miles, \$2000 firm. Lawrence, 821-8550.

YAMAHA DT-400 enduro, street legal, windshield; Attex 6-wd ATV, Hansche, 281-5623.

'70 HONDA 750, Vetter fairing, header, have orig. exhaust, w/helmet, \$1100. House, 293-6016.

'71 MERCURY Monterey 4-dr., new starter & battery, \$500. Brooks, 298-0376 after 5.

ski-lift tickets, golf fees, tennis courts, private lake. Gurule, 292-4736.

'80 14x70 Marshfield MH, \$3000, assume monthly payments \$207.90. Leatherman, 877-8173.

1570 SQ. ft., 3-bdr., 1 1/4 bath, 2-car garage, Heritage Hills, low equity, assume 12% FHA. Kolb, 822-1918.

NEW Holiday park, 3-bdr., 1 1/4 bath, LR, den w/tp, new carpet throughout, extras, \$85K. Greenhold, 294-5286.

WOODED 1 acre lot in Forest Lakes, Colo., near Vallicito Reservoir. Smith, 298-7365.

40 WOODED acres on 344, 4 miles east of N14; views, electricity to property, 20-yr. REC. Curtis, 281-3519.

4-BDR. adobe house on 31 acre farm w/grazing land, near Elephant Butte, \$70s. Tafoya, 296-7871.

3-BDR., garage, shop, LR, FR, DR, 2 bath, fp, 1500 sq. ft., near Montgomery/Wyoming, \$79K. Cover, 299-5015.

'83 AMERICAN 14x70 MH, 3-bdr., 2 bath, set up family park, assume loan plus down payment. Prusak, 298-7782 or 821-2816.

4-BDR. tri-level, 2450 sq. ft., 16x36 pool, rec. room, FHA 9 1/2% loan, 5 yrs. old Heritage Hills, \$114,700. Kerschen, 821-2848.

TAYLOR RANCH, 3-bdr., den, DR, 2 car garage, near elem. school, auto. sprinklers, landscaped. Stixrud, 898-8058.

SOUTHERN COLORADO, 6.4 acres near Ft. Garland, hunting & fishing, \$6500. Laval, 898-9112.

3-BDRM. remodeled adobe on .45 acres, Los Chavez, VA assumable loan, \$55K, terms. Taylor, 864-3338.

**WANTED**

TRADE 125cc Vespa motor scooter for small sail boat. Craig, 883-0004.

INFORMATION concerning 1 pr. horseshoes in metal box that disappeared during Sandia tournament at Los Altos Park. Fisher, 298-0526.

INEXPENSIVE, old bicycle for use in Tech Area. Rundle, 299-7900.

BOY's ski outfit, size 6-7. Lovato, 873-1198.

EXPERIENCED bass guitar player for new group. Jackson, 897-4258 after 6.

DESK. Moss, 298-2643.

CINDER BLOCKS, 8x8x16 std. & 6x8x16 std., new or clean used. Talbert, 298-9036.

13" 4-HOLE rim to fit Subaru. Brooks, 883-1485.

**WORK WANTED**

LIGHT hauling jobs. Scott Widenhoefer, 298-2510.

**SHARE-A-RIDE**

CARPOOL from Sante Fe to Tech Area I. Ortiz, 471-1646.

**REAL ESTATE**

10 ACRES, 4-bdr., 1 1/2 bath, MH, all utilities, includes washer, dryer, wood-burning stove, \$40K, Edgewood. Gonzalez, 281-1913.

TIMESHARE condo in Angel Fire, 1-bdr. w/suite, amenities include

## Two-for-One Steak Tonight; Pool Party Monday

TONIGHT at Happy Hour, two-for-one steak is the dining room special. For instance, you can buy two 8-oz. top round steaks for \$7.95, two 8-oz. sirloins for \$8.50, or two 8-oz. filets mignons for \$9.25. On the bandstand, a variety band called Company makes the swinging and swaying, leaping and cavorting music. Happy Hour prices (very reasonable) are in effect from 4:30 until the music starts at 8:30. Dining room hours are from 6 to 9 p.m. Happy Hour on Friday, Sept. 7, sees Enchantment on the bandstand, a seafood buffet special at \$6.95 in the dining room.

LABOR DAY MONDAY brings the Club's annual pool-and-patio-closing party around for one more fling at summer madness. Gates open at 11 a.m. with a full schedule of fun and games on tap until 6 p.m. The first 16 kids (7 to 12 years old) whose parents enroll them may participate in a hot dog eating contest. Adults may enjoy diving for cans of beer. All youngsters may try the pole climbing contest and diving for cokes. A dunking machine will be in operation — toss a ball, hit the target, and splash! you dunk the president of the Club, or the Club manager, or the recreation manager, a board member, or your mother-in-law if she volunteers. A beer truck will be on hand dispensing 50-cent beer, and a portable bar will be in operation. Barbeque beef dinners for \$3.85 and barbeque chicken for \$3.75 along with steak, hot dogs, hamburgers, fries, assorted salads, and goodies will be featured in the lunch line set up under the covered patio.

During the afternoon, a Spanish variety band called Lumbre will play for listening or dancing or whatever.

Members with swim tickets admitted free, other members pay \$1, and guests pay \$1.50.

WEDNESDAYS in September will feature a free spread of hors d'oeuvres in the main lounge for those who care to stop by between 4:30 and 6:30. Happy Hour prices (very reasonable) are in effect.

A STATE FAIR PARTY is scheduled Saturday, Sept. 8, featuring what Manager Mitch calls a "hoedown buffet" for \$7.25. Chef Henry will spread his very own Rio Grande-style chile, chicken enchiladas, barbequed chicken, and tamales with the works. Margaritas will sell for \$1. Southern Rail, a swinging country and western group, will be on the bandstand. There'll be a country western dance show at intermission time. Door prizes — tickets to the 1984 State Fair Rodeo — will be given away. Reservations (call 265-6791) are in order.

ATTENTION RETIREES — The Club invites all Sandia and DOE retirees and their spouses to a reception at the Club on Sunday, Sept. 9, from 2 to 5 p.m. (Those who are thinking of retiring soon are also invited.) Refreshments and hors d'oeuvres will be served. At 4 p.m. a meeting will be held to discuss organizing a retiree special interest group.



CORONADO CLUB LIFE GUARDS invite everyone to join the fun at the Club's annual end-of-swim-season and Labor Day party starting at 11 a.m. Sept. 3. Fun and games for adults and kids, a hot dog eating contest, lots of luncheon goodies, 50-cent beer, and a dunking machine are all part of the festivities. Plan on making it a family affair. From left are Preston Herrington III, Steven Petrund, Carol Pavelko, Tanya Payne, Shane Ross, and David Benson.

ANNUAL MEETING of the Coronado Club membership is scheduled Monday, Sept. 10, at 5 p.m. in the ballroom. All members are urged to attend. Election of seven board members is scheduled along with annual business. Free refreshments (with an open bar) will be served following the meeting.

Candidates nominated by the Board of Directors are Tom Mehlhorn (1265), Don Graham (3162), Leo Klamerus (2116), Gilbert Weigand (1511), Marv Plugge (5171), Claire Evans (3523), John Otts (6222), and Terry Holovka (1260).

A TRAVEL PROGRAM with one fabulous door prize is scheduled Tuesday, Sept. 11, at 7:30 p.m. in the ballroom. Zia Travel is hosting a program on merry old England with films and discussion. If 100 people attend, the firm will give away to the winner of a drawing two roundtrip tickets to London via American Airlines, five nights hotel lodging, and two tickets to a London show. Club membership cards will be checked at the door.

THURSDAY, Sept. 7, is family seafood night. It's an all-you-can-eat fish and chips special for \$4.95. Other seafood entrees are available. Reservations help; call 265-6791.

SKI FAIR VII, this year's annual Coronado Ski Club extravaganza, is scheduled Tuesday, Sept. 18, at 5 p.m. Everyone is invited. Learn about Ski Club trips planned next year, see equipment displays, hear a discussion of Ski Club membership benefits

(you save a lot of money on lift tickets, travel, etc.) and enjoy movies, refreshments, and become eligible for the fabulous (and famous) Ski Club door prizes. Mark it on your calendar and plan now to attend.

THE CORONADO CLUB JUNIOR BOWLERS are seeking new members, age 7 years through high school, to join the group, to have a lot of fun, and to win a lot of trophies. Beginners are welcome. The group bowls Saturday mornings starting at 9 at San Mateo Lanes. Cost is \$2.50 weekly. To sign up, call Cis Kelly (3552), 255-8011, or Charlie Kaspar (ret.), 821-5521.

TRAVEL — The dates of the Club-sponsored Mazatlan trip have been changed slightly due to an airline schedule change. The dates are now Nov. 13-20. A Fiesta party that includes dinner, drinks, and a floor show at the Playa Mazatlan has also been added to the package at no extra cost. It's still \$399. The trip is now about half full. Deposit \$200 at the Club office now to hold your spot.

Other Club-sponsored trips include a Cumbres-Toltec bus and railroad excursion Sept. 30 for \$48 and a charter bus Aspencade tour to Silverton and Ouray Sept. 26-30 for \$220.

The Coronado Wolfpack is sponsoring trips to view Lobo football games including a package to Hawaii. For details on these, and literature describing other available travel bargains compiled by the Club Travel committee, stop by the Club office.