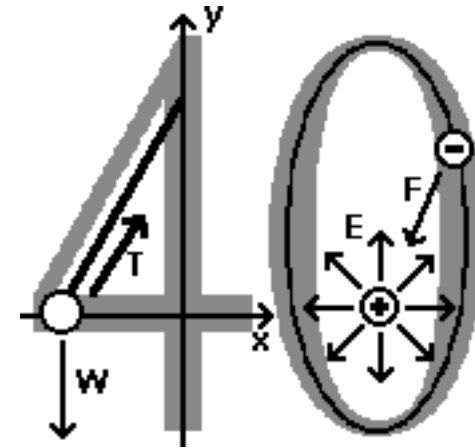
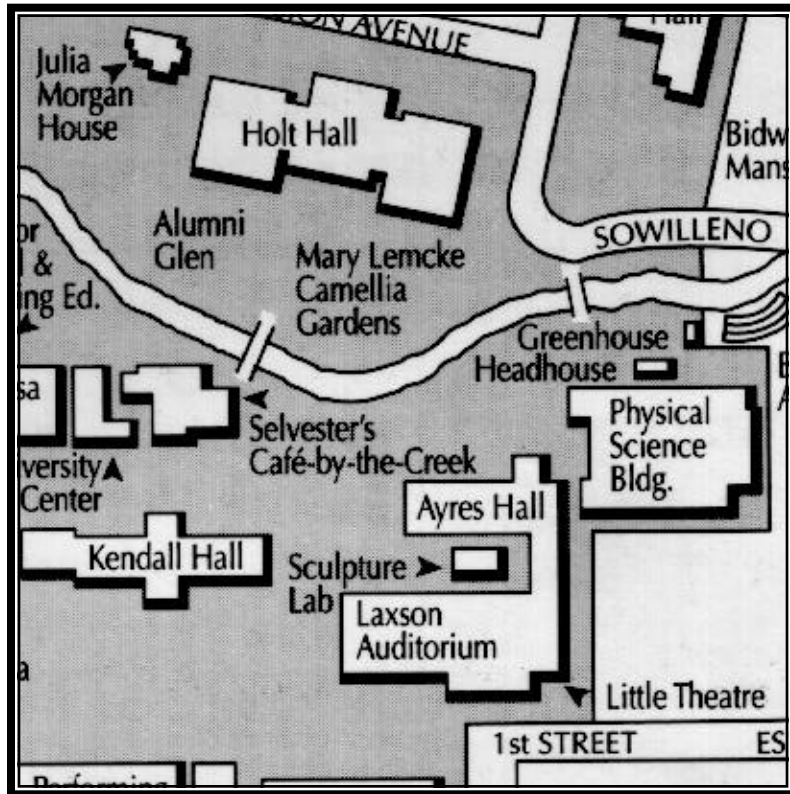


DEPARTMENT OF PHYSICS
CALIFORNIA STATE UNIVERSITY, CHICO

Campus Map

This is the area where the Friday events will be held.



FORTY YEARS OF PHYSICS
REUNION

April 22-24, 1999

Program & Schedule of Events

Department of Physics
California State University, Chico
Chico, CA 95929-0202
(530) 898-6259
phys@csuchico.edu
<http://www.csuchico.edu/phys/>

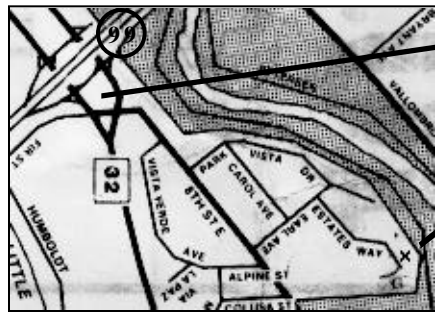
Thursday, April 22, 1999

Schedule of Events

TIME	EVENT	PLACE
7:00 - 9:00pm	Evening Reception	Mike McGie's

Map to Mike McGie's Home

Directions: Take the highway 32 exit from 99 heading east. Once on the east side of the freeway, find your way on to E. 8th St. This involves taking a left at the east side of the parking lot on a street probably called Fir. From E. 8th, make a left on Earl and a right on Estates.



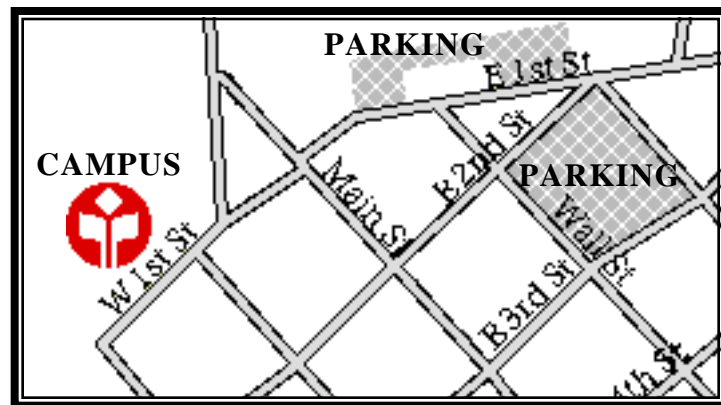
Turn left after this parking lot.

McGie's Home
1794 Estates
893-8632

Friday, April 23, 1999

Parking

Parking for Friday is available in city 10 hour lots for 25¢ per hour. You will need to bring quarters. Here is a map showing the locations of the lots.



Accommodations:

Please make your reservations directly with the hotel of your choice by as soon as possible. The deadline was March 26th. However, mention the **40 Years of Physics Reunion** and they might still honor these special rates.

① *Holiday Inn*

685 Manzanita Court
Chico, CA 95926

Hotel: (530) 345-2491

- \$63/night (children stay and eat free)
- Complimentary full breakfast buffet

② *Best Western Heritage Inn*

25 Heritage Lane
Chico, CA 95926

Hotel: (530) 894-8600

- \$73.80/night (children under 12 stay free)
- Complimentary Continental Breakfast

③ *The Esplanade House*

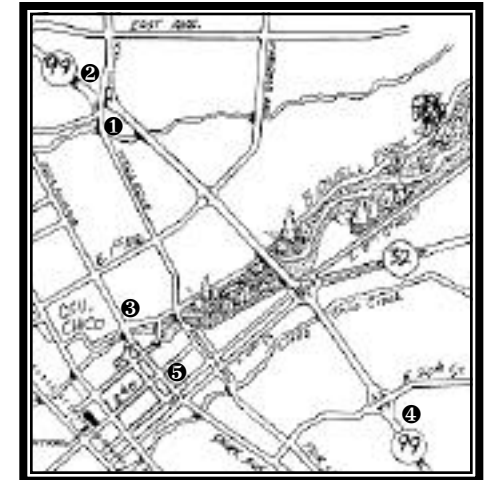
Bed & Breakfast
620 Esplanade
Chico, CA 95926
Hotel: (530) 345-8084

- \$65-85/night
- Full breakfast provided

⑤ *Vagabond Inn*

630 Main Street
Chico, CA 95928
Hotel: (800) 522-1555
or (530) 895-1323

- \$42-\$47/night
- Complimentary Continental Breakfast
- Kids stay free



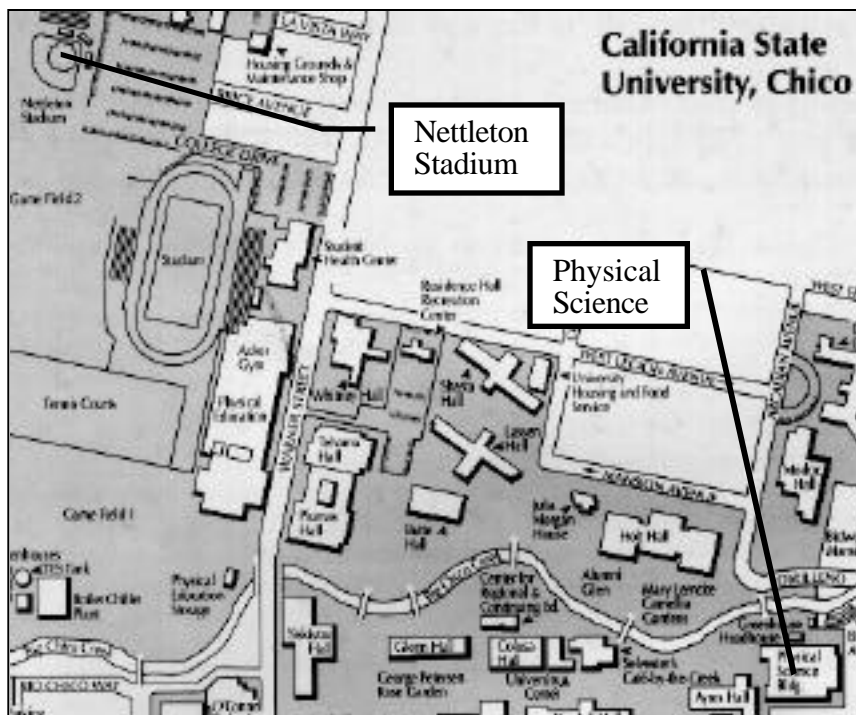
Saturday, April 24, 1999

Schedule of Events

TIME	EVENT	PLACE
11:00 - 1:00pm	Chicken Barbecue Sponsored by the Society of Physics Students	Nettleton Stadium
1:00 -	CSU, Chico Baseball Double Header vs. CSU, Los Angeles	Nettleton Stadium

Parking

On Saturday, you can park right next to the stadium. This parking is free.



Friday, April 23, 1999

Schedule of Events

TIME	EVENT	PLACE
8:30 - 11:30am	Registration, Muffins, & Coffee Exhibits	Physical Science 104
9:00 - 9:10am	Welcome Dr. David Kagan, Dept. Chair	Holt 170
9:10 - 9:50am	Invited Presentation "Physics in Fine Wine Vineyards" Mike Porter (1973) Mike Porter Vineyard Consulting, Inc.	Holt 170
10:00 - 11:30am	Contributed Presentations	Physical Science 108
11:30 - 12:00pm	Group Photograph	Amphitheater
12:00 - 1:00pm	Picnic Lunch Sponsored by Dr. Roger Lederer, Dean College of Natural Sciences	Alumni Glen
1:00 - 2:00pm	Contributed Presentations	Physical Science Room 108
2:00 - 3:00pm	Invited Presentation "Nuclear Physics & Arms Control" Thomas Gosnell (1967) Lawrence Livermore Laboratory	Ayres 106
3:00 - 4:00pm	Invited Presentation "Golf Balls, Boomerangs and Other Mysterious Things!" Scott Perry (1970) American River College	Ayres 106
4:00 - 5:00pm	English Scholarship Reception	Julia Morgan Garden
6:00 - 7:00pm	Reception	Holiday Inn
7:00 - 10:30pm	Banquet Keynote Address: Dr. Floyd English (1959) CEO, Andrew Corporation	Holiday Inn

Abstracts

INVITED PRESENTATIONS

“Physics in Fine Wine Vineyards”

Mike Porter (1973)

Mike Porter Vineyard Consulting, Inc.

Some applications of physics in Sonoma and Napa vineyards will be described. Topics include; innovative trellis systems that help turn sunlight into fine wine, what Bernoulli’s Equation doesn’t explain about exploding water pipes, how Munsell’s color standards bridge the gap between art and science, measuring soil moisture with neutrons and high-tech remote sensing.

“Nuclear Physics and Arms Control”

T.B. Gosnell (1967)

Lawrence Livermore National Laboratory

Even though the cold war has ended, the threat from nuclear weapons has not. The end of the Soviet Union and the collapse of the Russian economy has led to grave concerns regarding Russia’s ability to secure their weapons and fissile material. An overview of U.S. assistance to the Russian Federation through arms control and nonproliferation programs will be presented.

Specific technical arms-control inspection technologies differ in goals, constraints, and success metrics from traditional technology development in academia, government laboratories, and private industry. These differences will be illustrated with inspection technologies developed at our laboratory and other institutions. Finally, the role of research and development on new technologies will be addressed with examples from current research at our laboratory.

“Golf Balls, Boomerangs and Other Mysterious Things!”

Scott Perry (1970)

American River College

Why do they put dimples on golf balls? What’s a “dingle arm”? The physical principles that govern the flight of a golf ball, a boomerang, and other mysterious things will be discussed. Some experimental results will be presented. Flight simulators for both golf balls and boomerangs will be demonstrated.

CONTRIBUTED PRESENTATIONS

Friday April 23, 1999

Physical Science Room 108

10:00 - 10:20am	“One Way to Commercialize a Technology” Mr. Jon Bolstad (1962) Control Vision Inc.
10:20 - 10:35am	“Tissue Spectroscopy With Density Waves” Dr. Joshua Fiskin (1985) Boeing North America
10:35 - 10:50am	“Optical Polishing” Mr. Benjamin Catching (1989) Tinsley Laboratories
10:50 - 11:05am	“Teaching A Bit of Everything” Dr. Theresa Hartsell (1984) Clark College
11:05 - 11:25am	“Studying the Standard Model & Beyond” Dr. Gary Grim (1995) U. C. Davis
1:00 - 1:15pm	“The Geometry of Elementary Particles” Dr. Thomas Love (1968) C.S.U. Dominguez Hills
1:15 - 1:30pm	“Novel Materials: A Lab Notebook Tour” Mr. Thomas Nielsen (1996) U. C. Davis
1:30 - 1:45pm	“Sample Preparation for Surface Studies” Mr. Tracey Johnson (1988) U. C. Davis
1:45 - 1:55pm	“Studying the Onset of Turbulence ” Mr. Jason Trento (1997) U. C. Davis