

# Lawrence Berkeley National Laboratory

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Atomic Processes in Fusion Plasmas (A Satellite Meeting of XIV ICPEAC) July 31- August 2, 1985

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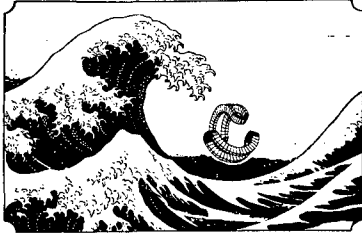
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# ATOMIC PROCESSES IN FUSION PLASMAS

(A SATELLITE MEETING OF XIV ICPEAC)

## JULY 31 - AUGUST 2, 1985

**For Reference**

Not to be taken from this room

### **Santa Cruz Seminar Second Announcement**

#### **Introduction**

The International Seminar on Atomic Processes in Fusion Plasmas will be held at the University of California, Santa Cruz campus, from Wednesday, July 31 to Saturday, August 3, 1985. The Santa Cruz Seminar is a satellite conference to the Fourteenth International Conference on the Physics of Electronic and Atomic Collisions (XIV ICPEAC, Palo Alto, California, July 24-30, 1985). The Seminar is organized by Fred Schlachter (Lawrence Berkeley Laboratory) and Ron Olson (University of Missouri), and administered by the Conference Coordinator, Lawrence Berkeley Laboratory.

#### **Purpose**

The purpose of the Seminar is to bring together atomic and plasma physicists to discuss atomic and molecular data relevant to fusion. The topics to be discussed will include: atomic collisions in fusion reactors, collisions of singly and multiply charged ions with atoms, electron-scattering processes, and ion and atom sources and beams. Both theory and experiment will be discussed. Seminar attendance will be limited to approximately 80 participants, in order to promote informal communication. The Santa Cruz site is both isolated and rustic; social events will also provide opportunity for informal discussion.

#### **Location**

The Seminar will be held on the campus of the University of California at Santa Cruz. Santa Cruz is located approximately 70 km southwest of Palo Alto and 100 km south of San Francisco. The Santa Cruz campus is famous for the natural beauty of the landscape and for the architecture. Kresge College, where the Seminar will take place, is set in a redwood forest, and overlooks the Pacific Ocean a few kilometers away. Days are ordinarily warm in the summer; evenings can be cool.

## Organization and presentations

Invited talks will be presented on Thursday and Friday, August 1 and 2, in morning and afternoon sessions. The sessions will be on fusion plasmas, ion-atom collisions, electron-ion collisions, and atom and ion sources and beams. Many talks will be of a review nature and general in scope, with ample time for questions and discussion.

Speakers and session chairmen will include:

L.W. Anderson, University of Wisconsin  
C.F. Barnett, ORNL, Oak Ridge  
D.H. Crandall, U.S. D.O.E, Washington, D.C.  
G.H. Dunn, JILA, Boulder  
R.J. Fonck, PPPL, Princeton  
H.B. Gilbody, Queen's University, Belfast  
P. Hvelplund, Institute of Physics, Aarhus  
Y. Itikawa, ISAS, Tokyo  
J. Los, FOM, Amsterdam  
A. Müller, JILA and Universität Giessen  
S. Ohtani, Nagoya University  
R.A. Phaneuf, ORNL, Oak Ridge  
E. Salzbom, Universität Giessen  
J.C. Weisheit, LLNL, Livermore

Contributed papers are also welcome. They will be presented in a poster session Thursday evening. A one-page abstract should be mailed to Fred Schlachter, to be received on or before July 1. Copies of the abstracts of invited and contributed papers will be distributed at the Seminar.

## Lodging and meals

Lodging and meals will be provided at the Santa Cruz campus as part of the comprehensive package. The novel "dormitories" at Santa Cruz are low-rise apartments for seven people, with private bedrooms for one or two (all single beds), and shared bathrooms and common space. These apartments are located at Kresge College on the Santa Cruz campus, immediately adjacent to the meeting site. The feeling is that of a Mediterranean village. Breakfast and lunch will be provided at a self-service cafeteria on the campus, featuring a salad bar, natural foods, and unlimited quantities.

Dinner Wednesday will be at the cafeteria, following registration and a reception. Dinner Thursday will be a barbeque, followed by a poster session, and Friday evening will be a banquet. A picnic lunch on Wednesday will also be provided as part of the bus tour, as will an optional box lunch (no charge) on Saturday.

Children (2-11 years of age) are not allowed in the lodging at the Santa Cruz campus. Families will therefore need to arrange their stay at a hotel or motel in Santa Cruz; motels in town are approximately 8 km from Kresge College on the UC Santa Cruz campus, the meeting site. Prices for a room with two double beds are typically \$50-\$100 per night, plus 9 1/2% tax. We suggest that families stay at the Holiday Inn in Santa Cruz. A room for 2 adults with 2 double beds, suitable for a couple plus 2 children (children are free) is about \$80/night plus tax. More economical options are the Santa Cruz Travelodge and the Best Inn; neither has summer rates available at present, but expect a room with two double beds to cost about \$70/night at Travelodge and \$50/night at Best Inn, plus tax. Arrangements should be made directly with the hotel or motel.

Holiday Inn  
611 Ocean St.  
Santa Cruz, CA 95060  
(408)426-7100

Best Inn  
370 Ocean St.  
Santa Cruz, CA 95060  
(408)458-9220

Santa Cruz Travelodge  
525 Ocean St.  
Santa Cruz, CA 95060  
(408)426-2300

Limited transportation will be available between town and campus; a car, however, will be useful for those staying off campus (and not useful for those staying on campus). Babies (children under 2) can stay free in the campus lodging; cribs can be rented upon advance notice. Children 12 and older can stay in the campus lodging at the adult rate.

## **DISCLAIMER**

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# Santa Cruz Seminar Registration

Please complete this form, make a photocopy for your own records, and return by airmail as soon as possible (one form per participant). Companions should be included on participant's form.

Surname/Family Name	First Name	Middle Name or Initial	Title
Organization or Affiliation			
Business Address			
Home Address			
Preferred Mailing Address: ( ) Business ( ) Home			
( )			
Daytime Telephone Number		Name as it should appear on name badge	
Accompanied by (Names, include ages of children):			

We are unable to accept charge cards. Please enclose check in U.S. dollars drawn on a U.S. bank, or U.S. currency drafts drawn on a U.S. bank, payable to:

**REGENTS, UNIVERSITY OF CALIFORNIA**

Return this form with your payment to:

**Peggy Little, Conference Coordinator  
Lawrence Berkeley Laboratory, B80C  
Berkeley, California 94720 USA**

**Participant registration** \$100

**Lodging and meals** (comprehensive package)

The comprehensive package includes lodging for three nights (Wednesday-Friday), three breakfasts and three lunches (Thursday-Saturday), and three dinners (cafeteria Wednesday, barbeque Thursday, banquet Friday).

\$180 per person (single room)	_____ x \$180	_____
\$140 per person (shared room)	_____ x \$140	_____

Requests for single and shared rooms will be fulfilled to the extent possible. Please indicate if you wish to share a room with a specific person or if you want a room-mate assigned. Please indicate smoker or non-smoker. Please inform us of any dietary restrictions.

- |  |                                     |
|--|-------------------------------------|
| <input type="checkbox"/> I wish to room with _____ | <input type="checkbox"/> Smoker     |
| <input type="checkbox"/> Please assign a room-mate | <input type="checkbox"/> Non-smoker |

**Transportation**

July 31, all-day bus tour (Palo Alto to Santa Cruz), including picnic lunch	_____ x \$6	_____
\$6 per person		

August 3, bus from Santa Cruz to San Francisco and/or airport	_____ x \$3	_____
\$3 per person		

**Off-Campus lodging only:**

Please indicate number of tickets for barbeque Thursday evening (\$8) and/or banquet Friday evening (\$12).

Thursday barbeque, \$8 per person	_____ x \$8	_____
Friday banquet, \$12 per person	_____ x \$12	_____

**Total payment enclosed** \_\_\_\_\_

**Please Return by June 14, 1985**

All meals are included in the comprehensive package. For those staying in a motel in town, meals can be purchased on campus. Breakfasts, lunches, and dinner (Wednesday only) need no reservation. Advance reservation and payment is required for the Thursday barbeque and Friday banquet.

### **Transportation**

An all-day bus tour of the Santa Cruz-Monterey area is planned for Wednesday, July 31. We will leave Palo Alto (Stanford campus) in the morning, eat a picnic lunch at the beach, and arrive at the Santa Cruz campus at about 4 pm, in time for registration and a reception, followed by dinner. Advance registration and a nominal fee are required for the bus tour. Bus transportation to San Francisco and the San Francisco airport will be provided on Saturday, August 3, for a nominal fee (advance registration required). The bus will arrive at the airport before noon on Saturday and in downtown San Francisco before 1 pm (please contact us for hotel suggestions in San Francisco or Berkeley). Please do not schedule flights leaving the San Francisco airport earlier than 12:30 - 1:00 pm on Saturday; there is no public transportation from the Santa Cruz campus to San Francisco or the airport.

### **Registration**

The number of participants for the Seminar will be limited, so please apply early, as priority will be given on the basis of date of receipt of applications. Applications and fees must, in any case, be received before June 14; earlier application is highly recommended because of the limit on the number of participants. Payment of the Seminar registration fee must be made with the application, along with the lodging and bus fees. We strongly encourage all participants to stay on campus; the unique atmosphere of the Santa Cruz campus will be very rewarding. The registration fee (participants only) and the comprehensive lodging package and bus fees cover transportation, lodging, and meals from pick-up at Stanford Wednesday morning to deposit in San Francisco or at the airport on Saturday. An informal program will be arranged for companions of participants for Thursday and Friday, and a van will be available without cost for companions to explore the area. Recreational facilities will be available on the campus, and the area abounds with possibilities (beach, tidepools, aquarium, redwoods). Remember that the Santa Cruz campus is very rustic. Bring comfortable walking shoes, a jacket for the evenings, an alarm clock, and perhaps a flashlight for evening strolls.

### **Message Center**

A telephone ((408)429-2611) will be available 24 hours a day for receipt of emergency calls during the conference. Pay phones are available on campus. A message center will be maintained between 9:00 am - 5:00 pm at the main conference site.

### **Travel desk and clerical support**

A secretary will be available between 9:00 am - 5:00 pm at the conference site to assist with travel, accommodations, changes in reservations, and with clerical needs.

### **Additional information**

Conference coordinator:	Ms. Peggy Little Conference Coordinator Lawrence Berkeley Laboratory, B80C 1 Cyclotron Road Berkeley, CA 94720 (415)486-6386
Scientific organizers:	Alfred S. Schlachter Lawrence Berkeley Laboratory, MS/4-230 1 Cyclotron Road Berkeley, CA 94720 (415)486-5011  Ronald E. Olson Physics Department University of Missouri Rolla, MO 65401 (314)341-4933

