

ICNSP '03 – September 7-10, 2003
The 18th International Conference on Numerical Simulation of Plasmas
<http://web.mit.edu/ned/ICNSP/>
Sea Crest Oceanfront Resort and Conference Center
Cape Cod, Massachusetts USA

Topics:

Plasma simulations

- Space and astrophysical plasmas
- Magnetic and inertial fusion plasmas
- Intense laser interaction with plasma
- Beam and accelerator physics
- Low temperature, dusty and nano-plasma
- Various plasma-based devices

Numerical methods for plasma simulations

- MHD, other fluid methods for plasma
- Kinetic plasma methods - PIC and Vlasov
- Hybrid methods, including PIC-DSMC
- Gyro-kinetic and gyro-fluid methods
- Grid-free methods and molecular dynamics
- High-order, adaptive and multi-scale methods
- Scientific visualization for numerical simulation

A US-Japan workshop on “Scope of Simulation Science” will be held in conjunction with this conference, as has been a tradition at previous conferences.

Deadlines:

One-page abstract submission – **May 16**

Early registration – **June 20**

Guaranteed hotel reservation – **July 11**

Full four-page abstract – **July 25**

Nominations for Buneman and Dawson Awards – **September 7**

Manuscript submission – **September 7**



View from the Sea Crest Resort deck

Objectives:

The purpose of the conference is to highlight major advances in computational plasma physics and related areas that happened since the last conferences in this series:

ICNSP-17, May 2000, Banff, Canada

ICNSP-16, February 1998, Santa Barbara, USA.

The working language of the conference is English.

Sponsored by:

Massachusetts Institute of Technology
U.S. Department of Energy
Delta Search Labs



Conference Organization:

International Conference Committee

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Evening, front of the Sea Crest Resort

ABSTRACTS

Authors are invited to submit one-page abstracts via e-mail to icnsp@mit.edu by **May 16, 2003** as attached PDF files. Simple formatting rules to be used are given at <http://web.mit.edu/ned/ICNSP/abstracts.html>.

Full four-page abstracts are due by **July 25**.

All abstracts accepted by the Conference Program Committee will be collected in the Book of Abstracts, which will be given to the participants at the registration desk.

A CD-ROM with abstracts and presentations will be available after the conference.

ORAL AND POSTER PRESENTATIONS

Please indicate in the e-mail the preferred mode for your presentation – oral or poster. Number of oral presentations will be limited.

Instructions for the oral and poster presentations will be sent along with the abstract acceptance letter.

CONTACT

Conference Secretary:

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Cambridge, MA 02139 USA

PROCEEDINGS

All the invited, oral and poster contributions will be published in the specialized issue of the *Computer Physics Communications* journal. The instructions for a manuscript preparation are at <http://www.elsevier.nl/locate/cpc>. Participants could be asked to serve as referees for one or more papers.

OSCAR BUNEMAN AWARDS AND JOHN DAWSON PRIZE

A tradition, which began at the two last conferences, will continue.

This is the presentation of the third “Oscar Buneman” award for the most insightful visualization - one in the Best Still Image and another for the Best Animation categories.

To commemorate the late John Dawson a specialized award for pioneering advances to plasma physics obtained through simulations will be presented for the first time.

ACCOMODATIONS

ICNSP ’03 will be held at the Sea Crest Oceanfront Resort and Conference Center (<http://www.seacrest-resort.com/>), 350 Quaker Rd., N. Falmouth, Massachusetts, USA—located in the majestic Cape Cod peninsula, approximately 65 miles (100km) south of Boston, Massachusetts. A limited block of rooms is reserved at the Sea Crest Resort at \$119/night special rate for a double room. Triple and quad occupancies will be also available.

Participants are kindly asked to make their own reservations. One or two nights could be added before and/or after the conference if desired.

This is Cape Cod as you've dreamed it would be. Pristine white sands lapped by a sparkling ocean. Cape Cod is a renowned resort area with ample attractions. The weather in early September is usually delightfully pleasant with air and water temperatures at about 25°C.

TRANSPORTATION

The closest metropolitan airports are Boston Logan (Massachusetts) and Providence T.F. Green (Rhode Island). Main New England airports with transportation system are described in this page: <http://www.masstraveljournal.com/airports.html>

We recommend using airport shuttle service for the non car-renting participants.

REGISTRATION

Conference advanced registration fee is \$290 (includes Book of Abstracts, CD-ROM, Coffee Breaks, Reception, Banquet, and Sea Cruise) – by **June 20**.

Registration fee after June 20 will be \$360.

Student registration is \$90.

Extra tickets are available for social events.

Extra copies of the Book of Abstracts and CD-ROM will be available for an extra charge.

FURTHER INFORMATION –
<http://web.mit.edu/ned/ICNSP/>



View of the Sea Crest Resort from sail boards