

# **2005 Meeting of the American Physical Society Division of Atomic, Molecular, and Optical Physics**

**May 17-21, 2005, Cornhusker Hotel and Burnham-Yates  
Conference Center, Lincoln, Nebraska**

## ***GENERAL INFORMATION***

The 36<sup>th</sup> DAMOP Meeting of the American Physical Society will be held in Lincoln, Nebraska. Meeting sessions commence on the morning of Wednesday, May 18 and continue until noon on Saturday, May 21, 2004. Three special workshops take place on Tuesday, May 17. The principal venue for the meeting will be the Marriott Cornhusker Hotel and the adjoining Burnham Yates Conference Center. Additional Events will be held on the campus of the University of Nebraska – Lincoln (UNL), a 5-10 minute walk from the Cornhusker Hotel. Information related to the conference may be found on the conference website: <http://damop2005.unl.edu/>. Unless indicated otherwise, all designated rooms are in the Burnham-Yates Conference Center.

## ***REGISTRATION***

Registration and conference check-in will take place beginning Tuesday, May 17, in the Lower Lobby of the Burnham-Yates Conference Center. The registration desk will be staffed from 1200-2100 on Tuesday, and throughout the day on Wednesday through Friday. The conference registration fee includes all sessions, plenary talks, the welcome reception on Tuesday evening, the Conference Banquet on Friday evening, and all breaks.

## ***SPECIAL EVENTS***

### ***TUESDAY, MAY 17***

#### **STUDENT WORKSHOP ON MODERN LASER TECHNOLOGY**

A half-day symposium and hands-on tutorial workshop on “Generation and Applications of Ultrafast and Intense Pulses” will be held from 1300-1700 in Ferguson Hall on the UNL Campus. The purpose of this workshop is to acquaint students with hot topics in modern laser technology. It also aims to provide participants with some tools to understand and explore such widely ranging laser phenomena as attosecond pulses and slowing and stopping of light. The target audience comprises undergraduate students, graduate students, and post-docs. The speakers will be Henry Kapteyn (JILA, Colorado) and Ronald Walsworth (Harvard-Smithsonian). A hands-on session will be conducted by Herman Batelaan and Kees Uiterwaal (Nebraska).

## **TWO WORKSHOPS ON TEACHING**

In a morning session, to be held at 0900 in the Hawthorne Room, former participants in the New Physics and Astronomy Faculty Workshops sponsored by APS and AAPT will gather to talk about what they and their departments have done to enhance the teaching of physics and astronomy. This session is open only to faculty members who have participated in the APS/AAPT workshops.

In an afternoon open registration session, to be held at 1400 in 211 Brace Laboratory on the UNL Campus, Carl Wieman, Enrique Galvez, David Pritchard, Steve Reaser, and Roger Kirby will talk about new developments in teaching introductory physics and upper-level AMO courses.

Further details about both of these workshops are available on the local conference website.

## **DAMOP EXECUTIVE COMMITTEE MEETING**

The DAMOP Executive Committee meets at 1400 in the Olive Branch Room. The closed session is from 1400-1500; the open session begins at 1530.

## **WELCOME RECEPTION**

A welcome reception for DAMOP registrants will be held in the Grand Ballroom from 1800-2100.

## **TAMOC MEETING**

A meeting of the Theoretical Atomic, Molecular and Optical Community will be held at 2000 in the Hawthorne Room.

**WEDNESDAY, MAY 18**

**PLENARY SESSION**

The opening session of the conference will take place from 0800-1000 in the Grand Ballroom and will honor three APS Prize Winners: Deborah Jin (Rabi Prize), Murtadha Khakoo (Research at an Undergraduate Institution Prize), and Ron Walsworth (Pipkin Award).

**PHYSICAL REVIEW A STAFF BREAKFAST MEETING**

The staff of *Physical Review A* will meet from 0900-1030 in the Ivanhoe Room.

**DAMOP FELLOWSHIP COMMITTEE LUNCHEON**

The DAMOP Fellowship Committee will meet from 1200-1330 in the Ivanhoe Room.

**MEET THE EDITORS OF *PHYSICAL REVIEW A* AND *PHYSICAL REVIEW LETTERS***

The editors of *Physical Review A* and *Physical Review Letters* invite you to join them for refreshments and conversation, 1530-1730 in the Ivanhoe Room. Your questions, suggestions, compliments, and complaints about the journals are welcome.

**POSTER SESSIONS AND EXHIBITS**

Poster sessions will be held from 1530 until 1800 on Wednesday, Thursday, and Friday in the Lancaster Room. Refreshments will be provided. Various commercial and industrial firms will have exhibits in the Atrium during the poster sessions. People presenting posters are asked to remove them no later than 1830 on the day of the presentation.

**PRECISION PIZZA**

The Topical Group on Precision Measurements and Fundamental Constants will have its traditional Pizza Reception from 1800 to 1930 in the Hawthorne Room.

***JOURNAL OF PHYSICS B* RECEPTION**

The Institute of Physics (U.K.) will host a reception for invited guests at the Wick Center, 1520 R Street, on the UNL Campus from 1800 to 1930.

**MARIE CURIE: A LIVING HISTORY**

Susan Marie Frontczak will be performing a special presentation of "Marie Curie, a Living History" at 2000 in Kimball Recital Hall on the UNL Campus. Conference participants are invited to share an engaging tale of the life of one of the most famous women in science. A complimentary ticket is included with registration.

### ***THURSDAY, MAY 19***

#### **WOMEN SCIENTISTS IN DAMOP RECEPTION**

DAMOP will host a reception from 1700-1900 in the Olive Branch Room. Women graduate students and postdocs are especially welcome. Refreshments will be served.

#### **TOWN MEETING ON THE NRC DECADAL STUDY OF THE FIELD OF LOW TEMPERATURE PLASMAS**

At 1730 in the Hawthorne Room, there will be a "town meeting" discussion of the upcoming NRC Study of Low Temperature Plasma Physics. Following introductory remarks by the Study Co-Chairs Mark Kushner, Tim Sommerer, and Steven Girshick, an open microphone session will be held at which members of the AMO community will be invited to provide comments to the study panel.

#### ***PHYSICAL REVIEW A/PHYSICAL REVIEW LETTERS* EDITORIAL BOARDS JOINT RECEPTION AND INDIVIDUAL DINNERS**

There will be a cocktail reception for the members of the *Physical Review A* and *Physical Review Letters* Editorial Boards in the Ivanhoe Room at 1800. This will be followed immediately by separate dinners for the individual boards in the Arbor Rooms A and B.

#### **STUDENT PICNIC**

Students staying in housing on the UNL Campus are invited to a picnic from 1800 – 1930 in the Sheldon Gallery Sculpture Gardens on the UNL Campus.

#### **TOURS OF PHYSICS LABS AND THE SHELDON GALLERY**

Tours of the Department of Physics and Astronomy Laboratories will commence at 1930 in Ferguson, Behlen, and Brace Laboratories and will continue until at least 2130. Tours of the Sheldon Memorial Gallery, in a beautiful building by Philip C. Johnson, will begin at 1930 also. The Sheldon has a significant collection of American art, including works by Edward Hopper, Andy Warhol, Jackson Pollock, Mary Cassatt and Georgia O'Keeffe.

***FRIDAY, MAY 20***

**PROGRAM COMMITTEE LUNCHEON**

The DAMOP Program Committee will meet from 1200-1330 in the Olive Branch Room.

**DAMOP THESIS PRIZE COMMITTEE LUNCHEON**

The DAMOP Thesis Prize Committee will convene at a lunch meeting from 1200-1330 in the Ivanhoe Room.

**DAMOP BUSINESS MEETING**

The DAMOP Business Meeting will be held from 1630 until 1800 in the Arbor Room.

**TOWN MEETING ON THE NATIONAL ACADEMY OF SCIENCES DECADAL STUDY, AMO 2010**

At 1800 in the Arbor Room, there will be a “town meeting” discussion of the upcoming AMO 2010 Report. Following introductory remarks by the Study Co-Chairs, Philip H. Bucksbaum and Robert A. Eisenstein, as well as the Chair of CAMOS, Pierre Meystre, an open microphone session will be held at which members of the AMO community will be invited to provide comments to the study panel. This town meeting will be the first opportunity for the AMO 2010 Study Panel to interact with the AMO community.

**CONFERENCE BANQUET**

The conference dinner at 1930 in the Grand Ballroom will be preceded by a reception beginning at 1900 in the Atrium. The after-dinner speaker is John H. Marburger III, Science Advisor to the President and Director of the Office of Science and Technology Policy. He will speak on “Science, The Changing Frontier.”

***SATURDAY, MAY 21***

**EINSTEIN SYMPOSIUM**

In order to commemorate 2005, The Einstein Centennial Year of Physics, a public symposium on Albert Einstein’s work, and focusing on his *Annus Mirabilis*, will be held in the Grand Ballroom at 0900. The speakers will be John Rigden (Einstein and 1905), Roger Stuewer (Einstein’s Revolutionary Light-Quantum Hypothesis), Michel Janssen (Emergence and Interpretation of Lorentz Invariance), and Kameshwar Wali (Einstein,

Bose, and Einstein-Bose Statistics).

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## ***CONTACT CONGRESS***

Tuesday, May 17, 1400-1800; Wednesday, May 18, 0900-1600; Thursday, May 19, 0900-1600

You can have an impact on national science policy! Come write your Congressmen to let them know how you feel about science issues of interest to you. The most important letters that a Member of Congress receives are the ones from his or her constituents – **you elect them and you matter**. DAMOP and the American Physical Society feel that it is incumbent upon all of us to interact with the government, to offer technical assistance where we can, and to remind our Members of Congress that scientists have much to offer the country, especially in the areas of basic science R&D funding, science education, and energy policy. We have set up computers in the Atrium of the Conference Center where you can send a letter to your Senators and Representatives on issues that matter to you. Come help make science more visible in Congress!

## ***EMAIL***

The Cornhusker Hotel and Burnham Yates Conference Center have free wireless connection to the Internet for all participants. For those conference participants whose computers do not have wireless capability and for those without a computer, there are 12 computers available for use in the Garrat Room on the first floor of the Burnham Yates Conference Center. These will be available from 1800 – 2200 on Tuesday, 0800 – 2200 on Wednesday through Friday, and 0800 – 1200 on Saturday.

## ***ACCOMPANYING PERSONS INFORMATION***

Please check in at the accompanying persons information table in the reception area on Tuesday from noon to 2100 to confirm sign-ups for advance registration activities, sign up for any still-available activities, and for more information on things to do in Lincoln. On Wednesday those registered will be leaving the lobby of the Cornhusker Hotel at approximately 0930 for a short walk to the Nebraska State Capital (where a tour will be led by the Nebraska State Architect) followed by a luncheon at Billy's Restaurant. On Thursday morning, those who have registered will leave the Cornhusker Hotel lobby at 0900 for a bus trip to Omaha to tour the Jocelyn Museum with its Dale Chihuly sculpture, have a luncheon at the Lauritzen Gardens Café, and take a tram tour of the garden in its

spring bloom. The tour group will return at about 1600. Friday morning, registered participants will leave from the Cornhusker Lobby at approximately 0930 for a trip to East Campus to visit the International Quilt Study Center followed by a tour of the quilt exhibit at the Museum of Nebraska History.

## ***ACCOMMODATIONS***

### **PREFERRED HOTELS**

The official Conference Hotel is the Marriot Cornhusker. This hotel is adjacent to the Burnham Yates Conference Center, where the DAMOP Meeting will be held. Room rates are \$85 per night for single or double occupancy. Rooms must be reserved by May 2, 2005 to receive this rate. Website: [www.thecornhusker.com](http://www.thecornhusker.com); Reservations: 1-800-793-7474, Local Phone: 1-402-474-7474.

Other hotels close to both the University and the Cornhusker are:

The Holiday Inn, 141 N. 9<sup>th</sup> Street. Rate: \$71/night for DAMOP participants. Ask for the University Rate when making reservations. Website: [www.holiday-inn.com](http://www.holiday-inn.com). Reservations: 1-800-465-4329; Local Phone: 1-402-475-4011.

Embassy Suites, 1040 P Street. Room includes breakfast and happy hour drink. Please call Reservations for room rates. Website: [www.embassysuites.com](http://www.embassysuites.com). Reservations: 1-800-362-2779; Local Phone: 1-402-474-1111.

In addition, students may stay in the University Dorms at a rate of \$37/single, \$18.50/double. These rates include bed and bath linens and three meals per day in the student cafeterias. Further details are available on the conference website or at the Registration Desk.

## ***MEALS***

The welcome reception and conference dinner are included in the registration fee, as well as daily coffee breaks and poster session refreshments. In addition to the Cornhusker Terrace Grille Restaurant, there are a large number of restaurants in the immediate downtown Lincoln vicinity, all of which are listed in a brochure provided with your registration materials.

## ***PLEASE NOTE***

The APS has made every effort to provide accurate and complete information in this *Bulletin*. However, changes or corrections may occasionally be necessary and may be made without notice after the date of publication. To ensure that you receive the most up-

to-date information, please check the meeting Corrigenda distributed with this *Bulletin*.