

Eighth International Conference on Atomic and Molecular Data and Their Applications (ICAMDATA 2012)

SECOND ANNOUNCEMENT

Venue



NIST Administration Building
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Washington D.C.
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The conference will be held in the Green Auditorium of the Administration Building on the NIST campus in Gaithersburg, a Maryland suburb of Washington, D.C. You will find a detailed description of the access to the conference site on the conference web site.

At conference time, in the beginning of October, Washington usually enjoys pleasant fall weather, with daytime temperatures in the range 65 -80 degree Fahrenheit (18 - 27 degree Celsius).

Washington offers numerous museums, monuments, and art galleries of international stature, and many of these are without admission fees (including America's most often-visited museum, the National Air & Space Museum). Also, the Kennedy Center for the Performing Arts often offers concerts and operas.

Downtown Washington is conveniently reached via the Metro (subway), and shuttles are often available from NIST or the hotels to the Shady Grove Metro station on the Red Line.

Scope

ICAMDATA 2012 continues the series of international conferences since 1997 that promotes the use of atomic and molecular (AM) data in various fields of science and technology, and provides the principal forum for the interaction of AM data producers, data users, data compilers, and database developers. The conference will cover topics like:

I. Application and needs of atomic and molecular data:

- Astrophysics and atmospheric physics
- Inertial and magnetic fusion
- Low and high temperature laboratory plasma and industrial plasmas
- Lighting sciences and technology
- Biomedicine and biophysics
- Combustion and environmental sciences and technology
- Surface physics, gaseous electronics, solid state optics and spectroscopy, optoelectronics, etc.

II. Atomic and molecular data production:

- Data collection, assessment, exchange and dissemination
- Standardization of data formats
- AM databases, activities of data centers.

III. Experimental and theoretical methods for atomic and molecular data generation

- Atomic and molecular structure, spectroscopy and radiative processes
- Electron and photon collisions with atoms and molecules
- Heavy particle collisions
- Particle - surface interactions.

The scientific program will include invited lectures, a panel discussion, database demonstration, and poster sessions. Both experimental and theoretical poster contributions are solicited. The partial list of invited speakers and the titles of their talks are as follows:

Invited Lectures (confirmed speakers)

Ehud Behar, Technion Israel Institute of Technology, The use of atomic data in astrophysics (tentative title)

Laurence Campbell, Flinders Univ., Data needs for simulations of electron-driven processes in planetary and cometary atmospheres

James Colgan, Los Alamos Laboratory, The LANL atomic physics codes (tentative title)

Hyun-Kyung Chung, IAEA Vienna, Coordinated Activities on Evaluation of Collisional Data for Fusion Applications

Gordon Drake, University of Windsor, High Precision Atomic Data as a Measurement Tool for Halo Nuclei: Theory

Adam Foster, Harvard-Smithsonian Center for Astrophysics, the Harvard astrophysical database (tentative title)

Satoshi Hamaguchi, Osaka University, Roles of reactive species in plasma medicine

Per Jönsson, Malmö University, Accurate Transition Probabilities from large scale multiconfiguration calculations.

Jelle Kaastra, SRON Utrecht, Spectral modeling and diagnostics in various astrophysical environments

Igor Kaganovich, Princeton Plasma Physics Lab., Data applications for low temperature plasma (tentative title)

Tim Kallman, NASA Goddard Space Flight Center, Data needs for X-ray satellites (tentative title)

Fumihiko Koike, Saga University, Japan, Data of heavy elements for light sources in EUV and XUV lithography and other applications

Oleksandr Marchuk, Forschungszentrum Juelich, Germany, Data for beam spectroscopy in Tokamaks (tentative title)

Shigeru Morita, NIFS Japan, A study of tungsten spectra using Large Helical Device and Compact Electron Beam Ion Trap in NIFS

Holger S. P. Müller, Univ. Köln, The CDMS view on molecular data needs of Herschel, SOFIA, and ALMA

Nobuyuki Nakamura, University of Electro-Communications(Tokyo), EBIT spectroscopy of highly charged heavy ions relevant to hot plasmas

Wilfried Nörtershäuser, Johannes Gutenberg-Universität Mainz and GSI, High precision atomic data for halo nuclei and related nuclear structure

Zoran Petrovic, Data for modeling of positron collisions and transport in gases

Ronald Phaneuf, University of Nevada, Cross-section measurements with interacting beams

Juliet Pickering, Imperial College London, Advances in laboratory spectroscopic measurements (tentative title)

Thomas Pütterich, Max Planck Institut fuer Plasma Physik Garching, Tungsten Spectroscopy in Magnetic Confinement Fusion

Laurence Rothman, Harvard-Smithsonian Center for Astrophysics, The HITRAN molecular database

Daniel Savin, Columbia University, H₂ formation and implications for first star generation (tentative title)

Stefan Schippers, Giessen University, Storage-Ring Measurements of Hyperfine Induced and Two-Photon Transition Rates in Berylliumlike Ions

Hajime Tanuma, Tokyo Univ., Charge exchange spectroscopy of multiply charged ions of industrial and astrophysical interest

Jonathan Tennyson, University College London, Molecular line lists for exoplanets and other atmospheres

Eberhard Tiemann, Univ. Hannover, Renaissance in diatomic spectroscopy (tentative title)

Andreas Wolf, Heidelberg University, Storage ring experiments on electron-molecular ion interactions

Calendar

Deadline for submission of abstracts for invited talks	June 1, 2012
Deadline for submission of poster abstracts	July 30, 2012
Deadline for hotel reservations	August 25, 2012
Deadline for registration (full refund possible before this date):	August 31, 2012
Late registration deadline (5:00 PM EST)*	September 25, 2012
Conference Dates	Sept 30-Oct 4, 2012
Manuscripts from invited speakers due	November 1, 2012

*no on-site registration will be allowed due to security restrictions on accessing the NIST site.

Conference Format

ICAMDATA-2012 Program. Draft 2 (April 26, 2012)

30 minute blocks (25 min talks) with starting times indicated in column 1 below

All talks are in NIST Green Auditorium.

	Sunday	Monday	Tuesday	Wednesday	Thursday
8:00		Busses start from hotel	Busses start from hotel	Busses start from hotel	Busses start from hotel
9:00		Invited talk	Invited talk	Invited talk	Invited talk
9:30		Invited talk	Invited talk	Invited talk	Invited talk
10:00		Invited talk	Invited talk	Invited talk	Invited talk
10:30		coffee break	coffee break	coffee break	coffee break
11:00		Invited talk	Invited talk	Invited talk	Invited talk
11:30		Invited talk	Invited talk	Invited talk	Invited talk
12:00		lunch	lunch (IPC meeting)	lunch	(Business meeting)
1:30		Invited talk	Invited talk	Invited talk	(Escort to DC via subway)
2:00		Invited talk	Invited talk	Invited talk	
2:30		Invited talk	Invited talk	Invited talk	
3:00		Invited talk	Invited talk	Invited talk	
3:30		coffee break	coffee break	coffee break	
4:00	Registration (hotel)	Posters	Panel+ Demo of Databases	Posters	
6:00	Reception (hotel)	bus to hotel	bus to hotel	bus to hotel	

Call for Papers

All registrants are invited to submit an abstract for a contributed poster. Due to space limitations, there may be a need to limit multiple submissions from registrants. Please indicate in your email message which abstract is your primary submission (if submitting more than one).

Invited speakers will be asked to submit a paper of 10 pages or less for inclusion in the proceedings.

Abstracts for both invited talks and contributed posters will use the same format (below).

ABSTRACT PREPARATION:

1. Prepare a 1 page abstract following the format in the sample paper and/or MS Word template at <http://proceedings.aip.org/outline/6x9> (ignore "keywords" and everything below the end of the abstract).

Note that these abstracts are for inclusion in the registration packet; it is not intended that they will be printed in the published proceedings, so copyright forms etc., are not necessary. Invited speakers should prepare this abstract for their talk; they will have a chance to prepare a separate abstract for their papers.

2. Save your abstract in pdf format using your last name as the filename (example: smith.pdf). If you cannot save the abstract in pdf format, send it in Word format, however pdf is strongly preferred to insure that your abstract appears as you intended in the printed copy.

3. Attach your abstract to an email to rodrigo.ibacache@nist.gov with a cc to ebit2@nist.gov with the word ABSTRACT in the subject line.

POSTER PREPARATION:

Please size your poster to fit within a 1.2 m x 1.2 m space.

Registration Fee and Payment

Regular attendees	\$455
First 10 Students to register:	\$200

The conference fee includes, coffee breaks, lunches at the NIST cafeteria, a book of abstracts, refreshments at the Welcome Party on Sunday, September 30, and one ticket to the Conference banquet. Additional banquet tickets can be purchased during online registration for \$60.

To register, please use the online link: www.fbcinc.com/nist/ICAM. Visa, Mastercard, and American Express credit cards are accepted.

Due to security regulations, no on-site registrations will be accepted and all attendees must be pre-registered prior to 5 PM EST September 25, 2012.

Travel VISAS

Currently, if you are citizen of one of the following countries, you may apply for the visa waiver program at this website (there is a small fee, recently \$14):

<https://esta.cbp.dhs.gov/esta/application.html>

Andorra	Hungary	New Zealand
Australia	Iceland	Norway
Austria	Ireland	Portugal
Belgium	Italy	San Marino
Brunei	Japan	Singapore
Czech Republic	Latvia	Slovakia
Denmark	Liechtenstein	Slovenia
Estonia	Lithuania	South Korea
Finland	Luxembourg	Spain
France	Malta	Sweden
Germany	Monaco	Switzerland
Greece	the Netherlands	United Kingdom

Consult the U.S. Department of State website for updates to this list and for more info on the visa waiver program: http://travel.state.gov/visa/temp/without/without_1990.html#vwp

If you are not a citizen of one of the above countries, apply for your visa as soon as possible. The U.S. Visa Policy web site (http://travel.state.gov/visa/questions/policy/policy_4433.html) currently states that while most visa administrative processing is resolved within 60 days of application, before making inquiries about the status of your visa application you will need to wait at least 90 days after the date of interview or submission of supplemental documents, whichever is later. In the experience of our International and Academic Affairs Office, most scientists entering on a B-1 visa to attend an international conference will be able to get a visa within 1 month, but please allow more time than this.

Accommodation and Meals

A block of rooms is being held at two hotels until **August 25**. (see the conference web site for links to make reservations) Lunches and one dinner (conference banquet at the full service hotel) are included in the registration. A variety of restaurants are within easy walking distance of the hotels (for a list, see: <http://www.washingtoniancenter.com/dining.cfm?id=5>).

Currency

The local currency is U.S. Dollars. Restaurants, hotels, car rental agencies, gasoline stations, etc. will, with a few exceptions, take major credit cards. ATM machines are available at airports, banks, major shopping centers, and on the NIST site (in the lobby near the main entrance and at the COMSTAR Federal Credit Union in the basement).

Transportation

Washington is served by three major airports: Dulles International Airport (IAD), with numerous overseas connections, at a distance of about 30 miles from the conference hotels, Baltimore-Washington International Airport (BWI), also with many international connections, about 40 miles away, and Washington Reagan National Airport (DCA), about 30 miles away, with international connections through other U.S. cities. Air ticket prices can sometimes vary significantly depending on which airport you choose.

From Reagan National Airport, the subway Yellow and Blue Lines travel to downtown Washington D.C. and connect to the Red Line to the Shady Grove station, about 3 miles from the ICAMDATA conference hotels. Service is every 6 to 15 minutes, depending on the time of day (see the online subway trip planner for maps, prices, etc: <http://www.wmata.com/>). The total travel time from DCA to Shady Grove is approximately 1 hour. Taxis are available from the Shady Grove Metro station to the conference hotels (typically \$10-12).

The full service conference hotel has a free shuttle to/from the Shady Grove Metro station (exit the station on the East side by taking the tunnel on the right after doing down the escalator and look for a white van with a red ribbon painted on the side and a Marriott card in the window). Currently the hotel shuttle runs every half hour, Monday through Friday from 7:00 AM to 9:30 AM and Monday through Thursday from 4:00 PM to 7:00 PM (it does not run on weekends or on Friday afternoon). Information provided by calling both conference hotels suggests that you MIGHT (not guaranteed) be allowed to use the full service Marriott Hotel shuttle even if you are staying at the Courtyard Marriott Hotel.

A NIST shuttle van operates for visitors and conference attendees from the Shady Grove Metro station to NIST. The shuttle operates daily Monday - Friday, 6:45 a.m to 6:10 p.m. The shuttle stops at the 4th kiosk on the East side of the Metro Station, and at NIST in front of the

Administration Building (101) every 30 minutes. The first shuttle leaves the Shady Grove Metro Station at 6:45 a.m. and the last shuttle from NIST leaves at 6:00 p.m.

Ground transportation options from Dulles airport is detailed on this web site:
<http://www.metwashairports.com/dulles/793.htm>

Ground transportation options from BWI airport is detailed on this web site:
<http://www.bwiairport.com/en/travel/ground-transportation>.

Taxi rides directly from the airports to the conference hotels can run about \$ 60 - 80, but there are also less expensive shared limousine services (around \$36, see above and below).

For the trip back to the airport, some info and phone numbers regarding local (Gaithersburg) Taxi, Limo, and rental car services can be found at this web site:
http://www.nist.gov/public_affairs/visitor/transpor.cfm

Government issued photo identification (e.g., passport or U.S. driver's license) must be presented to be admitted to the NIST site (after registration at least 5 days prior to the conference).

Social Program

Sunday evening (September 30)
Wednesday (October 3)

Registration and Reception (main hotel)
Conference Banquet (included in reg)

On Thursday afternoon (October 4), some members of the local committee will be available to escort visitors via the subway to visit:

- National Mall and Memorial Parks (www.nps.gov/nama/)
- Smithsonian Museums (<http://www.si.edu/Museums>)
- Downtown Washington DC (<http://washington.org/>)

International Program Committee

W. Wiese (Chair)	USA
S. Fritzsche (Vice Chair)	Germany
G. Zissis (Secretary)	France
K. Bartschat	USA
B. Braams	USA (IAEA)
S. Buckman	Australia
R. Carman	Australia
M.-L. Dubernet	France
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J. Horacek	Czech Rep.
R. Janev	Macedonia

C. Mendoza	Venezuela
A. Mueller	Germany
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D. Reiter	Germany
Y. Rhee	S. Korea
E. Roueff	France
T. Ryabchikova	Russia
A. Ryabtsev	Russia
P. Scott	UK
V. Shevelko	Russia
J. Wang	China

Local Organizing Committee

John Gillaspy (Chair) (NIST)
Jim Babb (Harvard-Smithsonian Center for Astrophysics)
John Curry (NIST)
Jeff Fuhr (NIST)
Rodrigo Ibacache (NIST)
Tim Kallman (NASA GSFC)
Karen Olsen (NIST)
Glenn Wahlgren (NASA HQ)

Contacts

General conference questions/comments (currently routes through local chair): ebit2@nist.gov

Local chair (direct): john.gillaspy@nist.gov

Local conference committee information specialist: rodrigo.ibacache@nist.gov

Program chair: wolfgang.wiese@nist.gov

Postal address: 100 Bureau Drive, Mailstop 8422, Gaithersburg, MD 20899-8422

Updates to this second announcement will be provided at a later date as necessary. See also the conference website: <http://physics.nist.gov/icamdata2012>