

ICOPS 2011 SOFE

Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois



- Welcome
- Registration
- Conference Location
- Key Personnel
- Technical Program
- Plenary Speakers
- Abstract Submission
- Important Deadlines
- Travel Information
- Visa Information
- Accommodations
- Presenter Instructions
- Exhibition
- Downloads
- MiniCourse
- Social Events
- Student Travel Grants
- Student Awards
- Job Placement
- Private
- Sponsors

The 38th IEEE International Conference on Plasma Science (ICOPS) and 24th Symposium on Fusion Engineering (SOFE) were held in Chicago, USA from June 26 through June 30, 2011. The conference venue was Hyatt Regency McCormick Place, Chicago. Thanks to all who helped organize a successful joint ICOPS and SOFE, and thanks to the 750 attendees for their participation.



Ahmed Hassanein, ICOPS Chair

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Purdue University, IN



Charles Neumeyer, SOFE Chair

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Princeton Plasma Physics Lab, NJ

The joint association of these two conferences (ICOPS & SOFE) follows a successful tradition of fostering of close interaction between the plasma science and fusion energy communities and provides a central gathering place for the international community of leading researchers in and plasma applications and fusion energy development. Selected papers from both ICOPS and SOFE will be published in special issues of the IEEE Nuclear and Plasma Science Society (NPSS) journal *Transactions on Plasma Science*.

ICOPS

- Topics
- Committee
- IEEE TPS Special issue
- Past/Future ICOPS
- Plasma Conferences

SOFE

- Topics
- Committee
- SOFE Manuscript
- SOFE TPS Special Issue

Recent Updates:

- [Detailed Technical Program of ICOPS-SOFE 2011](#)
- [Instructions for SOFE Manuscript Submission](#)
- [SOFE special issue of Transactions on Plasma Science \(TPS\)](#)

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June 26-30, 2011 | Chicago, Illinois



- Welcome
- **Registration**
- Conference Location
- Key Personnel
- Technical Program
- Plenary Speakers
- Abstract Submission
- Important Deadlines
- Travel Information
- Visa Information
- Accommodations
- Presenter Instructions
- Exhibition
- Downloads
- MiniCourse
- Social Events
- Student Travel Grants
- Student Awards
- Job Placement
- Private
- Sponsors

ICOPS

- Topics
- Committee
- IEEE TPS Special issue
- Past/Future ICOPS
- Plasma Conferences

SOFE

- Topics
- Committee
- SOFE Manuscript
- SOFE TPS Special Issue

Email ICOPS-SOFE 2011

Registration

Online registration is closed

Attendees can still register using the hard copy form or onsite at the Conference Registration Desk.

	On or before May 15	After May 15
IEEE Member	\$600	\$700
Non-Members	\$750	\$850
Student Members	\$250	\$350
Student Non-Members	\$350	\$450
IEEE Retiree	\$250	\$350

Registration fee includes: Proceedings and Welcome Reception.

Click here to register online: <https://www.npss-confs.org/icops-sofe/registration>

To register by fax or by mail please download the [registration form](#).

Affiliate members of the IEEE Nuclear and Plasma Science Society (NPSS) qualify of the lower Members rate. For membership information, contact IEEE Member Services at 800-678-IEEE.

REGISTRATION CANCELLATION POLICY

All refund/cancellation requests must be provided in writing to icopssofe11reg@ieee.org. If request is received by 15 May 2011, you will receive a full refund. A cancellation fee of \$100 will accrue for a refund requests received after that date. Refunds will not be honored if received after 27 May 2011.

Registration office Hours (Conference Hotel)

June 26 Sunday	1400 - 1900
June 27 Monday	0700 - 1700
June 28 Tuesday	0700 - 1700
June 29 Wednesday	0700 - 1600
June 30 Thursday	0730 - 1100



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- [Welcome](#)
- [Registration](#)
- [Conference Location](#)
- [Key Personnel](#)
- [Technical Program](#)
- [Plenary Speakers](#)
- [Abstract Submission](#)
- [Important Deadlines](#)
- [Travel Information](#)
- [Visa Information](#)
- [Accommodations](#)
- [Presenter Instructions](#)
- [Exhibition](#)
- [Downloads](#)
- [MiniCourse](#)
- [Social Events](#)
- [Student Travel Grants](#)
- [Student Awards](#)
- [Job Placement](#)
- [Private](#)
- [Sponsors](#)

ICOPS

- [Topics](#)
- [Committee](#)
- [IEEE TPS Special issue](#)
- [Past/Future ICOPS](#)
- [Plasma Conferences](#)

SOFE

- [Topics](#)
- [Committee](#)
- [SOFE Manuscript](#)
- [SOFE TPS Special Issue](#)

[Email ICOPS-SOFE 2011](#)

Conference Venue

The conference venue for IEEE Nuclear and Plasma Sciences Society International Conference on Plasma Science (ICOPS) and Symposium on Fusion Engineering (SOFE) is the [Hyatt Regency McCormick Place](#), Chicago, USA.

*NOTE: There are two (2) Hyatt Regency Hotels in Chicago - the Hyatt Regency McCormick Place is **NOT** downtown. By choosing to stay at the conference hotel, you have the convenience of not paying for a taxi roundtrip each day. In addition, we have negotiated free wifi internet in the guestrooms.*



Chicago Attractions

Official Visitors Web Site

Explore the City

Boat Tours: There are several boat tours of the Lake Michigan waterfront and the Chicago River, which offer panoramic views of the city's skyline, and feature architectural and historical points of interest.



Walking Tours: Or, take a walking tour of the loop with the Chicago Architectural Foundation from the Santa Fe building at 224 S Michigan (312 922 TOUR). Downloadable self-guided tours in PDF format are available at a nominal cost.



Sightseeing Bus Tours: Sightseeing bus tours are also available, operated by Chicago Double Decker Co. (312 251 3100) or Chicago Trolley Company (773 648 5000).



Towers: See Chicago from the top of the [Hancock Tower](#) or the [Willis Tower](#) (formerly the Sears Tower; the tallest structure in the USA.)



Navy Pier: Enjoy the view of the city from the Navy Pier Ferris Wheel, one of many attractions at one of the largest entertainment piers in the USA. For more information visit <http://www.navy pier.com/>



Millennium Park: Chicago's lake-front attraction. It is adjacent to Grant Park, a 24.5 acre wonderland, which includes the Gehry Music Pavilion, the new home of the Grant Park Music Festival, with free outdoor classical music performances. For more information visit <http://www.millenniumpark.org/>



The Art Institute of Chicago, located in Grant Park, is one of the great museums of the world. Its collection spans 5000 years of visual expression, and contains one of the largest collection of Impressionist and Post Impressionist paintings outside France. For more information visit <http://www.artic.edu/aic/>



Museum Campus, at the south end of Grant Park, includes the Field Museum of Natural History (home of "Sue," the world's largest complete Tyrannosaurus Rex skeleton.) Over 20 million artifacts inhabit the nine acres of exhibit halls.



The Adler Planetarium and Astronomy Museum is the oldest planetarium in the western hemisphere, and is renowned for its collection of historical astronomical instruments and its splendid sky shows. Its location commands outstanding views up and down the lakefront.



The John G. Shedd Aquarium is the world's largest indoor aquarium, housing some 8000 aquatic animals of 650 species. The Shedd Aquarium was the first inland aquarium with a permanent saltwater fish collection.



Lincoln Park Zoo access is free. Founded with the gift of a pair of swans from New York's Central Park in 1868, the zoo now encompasses 35 acres housing 1000 animals. (Take the Lincoln Park Trolley from Navy Pier or CTA bus 151 on Michigan). For more information visit <http://www.lpzoo.com/>



Shopping

Magnificent Mile: N. Michigan Avenue, north of the Chicago River to the Water Tower, is Chicago's most prestigious street, lined with exclusive shops and boutiques. (During daytime catch the free Navy Pier Trolley.) The Water Tower was the city's tallest building when erected in 1869, and one of the only buildings to survive the Great Chicago Fire in 1871. (From Navy Pier take CTA bus 66.)



Food and Restaurants

The city is also known for various culinary dishes, notably the deep-dish pizza, the Chicago-style hot dog and the Chicago-style Italian beef sandwich. Although well known as a steak town, Chicago's diverse ethnic influences provide opportunities to sample a host of other cuisines. Near Navy Pier, the River north area (west of State St, North of the river) is home to many world class restaurants.

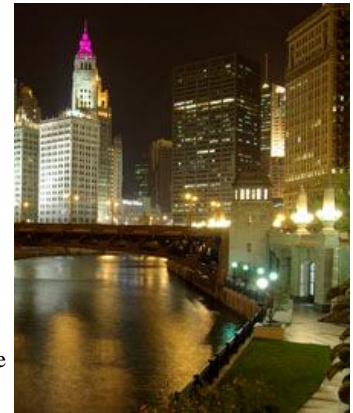
<http://chicago.citysearch.com/section/restaurants>



Arts & Nightlife

Chicago provides a variety of music and entertainment year-round. Close to 100 theatres host dramas and musicals for any taste. Dance, symphony and opera productions are performed at venues throughout the city. For calendar of events visit <http://www.chicagotraveler.com/calendars/chicago-events-calendar.htm>

House of Blues Chicago opened in 1996 and is located in the historic Marina City complex on the Chicago River. Modeled after the spectacular "Estavovski" Opera House in Prague, the spectacular views from the exclusive Opera Boxes are a unique and unforgettable experience.



Getting Around

The City of Chicago provides free tourist trolleys from Navy Pier to Michigan and State Streets and Lincoln Park, although these are often crowded.

The Chicago Transit Authority provides train ("the L") and bus service throughout the city. Visit the [CTA home page](#) for the latest fare information. You can purchase a day or weekly pass for EL trains and Buses. Visit www.transitchicago.com for more information.

Beyond Chicago

The Chicago Botanical Garden is located in north suburban Glencoe. Established in 1965, there are 25 garden areas arranged around a series of man-made lakes. **Brookfield Zoo** covers 216 acres, 14 miles west of downtown. This zoo has specialized in providing natural outdoor habitats for the animals since it was opened in 1934. **The Morton Arboretum**, founded in 1922, covers 1700 acres in the Chicago suburb of Lisle, located 25 miles west of downtown. Some 3300 species are represented in this scientific laboratory of woody plants.



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- Welcome
- Registration
- Conference Location
- Key Personnel
- Technical Program
- Plenary Speakers
- Abstract Submission
- Important Deadlines
- Travel Information
- Visa Information
- Accommodations
- Presenter Instructions
- Exhibition
- Downloads
- MiniCourse
- Social Events
- Student Travel Grants
- Student Awards
- Job Placement
- Private
- Sponsors

ICOPS

- Topics
- Committee
- IEEE TPS Special issue
- Past/Future ICOPS
- Plasma Conferences

SOFE

- Topics
- Committee
- SOFE Manuscript
- SOFE TPS Special Issue

ICOPS/SOFE Key Personnel



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Local Organizing Committee



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**Student Travel Grant
Coordinator****Keith Cartwright**

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ICOPS 2011 SOFE

Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois



- [Welcome](#)
- [Registration](#)
- [Conference Location](#)
- [Key Personnel](#)
- [Technical Program](#)
- [Plenary Speakers](#)
- [Abstract Submission](#)
- [Important Deadlines](#)
- [Travel Information](#)
- [Visa Information](#)
- [Accommodations](#)
- [Presenter Instructions](#)
- [Exhibition](#)
- [Downloads](#)
- [MiniCourse](#)
- [Social Events](#)
- [Student Travel Grants](#)
- [Student Awards](#)
- [Job Placement](#)
- [Private](#)
- [Sponsors](#)

TECHNICAL PROGRAM

- [Download the block schedule of the ICOPS 2011 technical program.](#)
- [Download full technical program of ICOPS 2011.](#)
- [Download the block schedule of the SOFE 2011 technical program.](#)
- [Download full technical program of SOFE 2011.](#)

ICOPS

- [Topics](#)
- [Committee](#)
- [Past/Future ICOPS](#)
- [Plasma Conferences](#)

SOFE

- [Topics](#)
- [Committee](#)
- [SOFE Manuscript](#)
- [SOFE TPS Special Issue](#)

Email ICOPS-SOFE 2011



ICOPS 2011 SOFE

Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois



- [Welcome](#)
- [Registration](#)
- [Conference Location](#)
- [Key Personnel](#)
- [Technical Program](#)
- [Plenary Speakers](#)
- [Abstract Submission](#)
- [Important Deadlines](#)
- [Travel Information](#)
- [Visa Information](#)
- [Accommodations](#)
- [Presenter Instructions](#)
- [Exhibition](#)
- [Downloads](#)
- [MiniCourse](#)
- [Social Events](#)
- [Student Travel Grants](#)
- [Student Awards](#)
- [Job Placement](#)
- [Private](#)
- [Sponsors](#)

ICOPS

- [Topics](#)
- [Committee](#)
- [Past/Future ICOPS](#)
- [Plasma Conferences](#)

SOFE

- [Topics](#)
- [Committee](#)
- [SOFE Manuscript](#)
- [SOFE TPS Special Issue](#)

[Email ICOPS-SOFE 2011](#)

ICOPS-SOFE Joint Plenary Speakers



June 27 (Monday) 8:30 am:

Dr. Donald L. Cook (Keynote Speaker)

The Importance of High Energy Density Plasma Science to NNSA's Defense Programs Mission

Dr. Donald L. Cook serves as the Deputy Administrator for Defense Programs at the National Nuclear Security Administration (NNSA). Appointed to the position by President Barack Obama, Dr. Cook was sworn in as NNSA's 5th Deputy Administrator in June 2010. He is responsible for managing the U.S. nuclear security enterprise of laboratories and manufacturing facilities.

Prior to his appointment to NNSA, Dr. Cook served as Managing Director and Chief Executive Officer of the Atomic Weapons Establishment in the United Kingdom from 2006 to 2009. In this capacity, he was accountable for AWE's performance on the contract with the UK Ministry of Defence, which includes support of the UK Trident warheads and development and sustainment of capability in nuclear weapon design, engineering development, manufacturing, qualification, assembly, transport, support in service, and finally, decommissioning, dismantlement, and disposal. AWE has an annual budget of \$1.2 billion and an employee workforce of 5,000.

From 1977-2005, Dr. Cook worked in Pulsed Power Sciences, Microtechnologies, Infrastructure, and Security at Sandia National Laboratories in Albuquerque, New Mexico. From 1999-2005, he was Director of the MESA Program Center, accountable for design and construction of the Microsystems and Engineering Sciences Applications (MESA) complex. In 2003, he assumed Program Director responsibilities for Sandia's Infrastructure Program and for Sandia's Safeguards and Security Technologies Program. From 1977-1999, Dr. Cook led efforts in pulsed power accelerator design and experimentation, fusion research, hydrodynamics, radiography, diagnostic development, and computational code development. He managed the Sandia Fusion Research Department from 1984-1993 and was Director of Pulsed Power Sciences from 1993-1999. Work during this period included construction and development of a number of accelerators, including the Z-machine.

Dr. Cook is a graduate of the University of Michigan and the Massachusetts Institute of Technology, and a Fellow of the American Association for the Advancement of Science (AAAS) and the Institute of Physics (IOP). He is married to the former Margaret Ann Kramer, with two grown daughters, Julia and Cynthia.



June 28 (Tuesday) 8:00 am:

Dr. Bryan J. Rice

EUV Lithography: A Semiconductor Industry Application of Plasma Physics

Dr. Bryan J. Rice is the Director of Lithography at SEMATECH.

Dr. Rice received his B.S. in Physics and an M.S. in Computer Science from the Georgia Institute of Technology in 1991 and Ph.D. in 1998 from Duke University. Dr. Rice joined Intel Corporation's Portland Technology Development Division in 1998. In 2002, Dr. Rice joined Intel's Components Research Division. During the next four years he worked with lithography tool manufacturers and EUV source suppliers to remove roadblocks to the development of EUV lithography technology. In addition, Rice was in charge of formulating Intel's strategic roadmap for critical dimension lithography metrology. He worked closely with metrology companies to match Intel's needs and the metrology industry's capabilities.

Rice became Immersion Lithography Program Manager at SEMATECH in 2006. He led SEMATECH's high index immersion research in the search for high refractive index lens and immersion fluid materials. Additionally, Dr. Rice formed SEMATECH's double exposure program, focusing on the exploration of novel materials for the litho-lithoetch patterning approach.

In 2008, Dr. Rice became Lithography Director for SEMATECH. The lithography division has active programs in EUV lithography, immersion lithography, and alternative lithography. Under his leadership SEMATECH has successfully launched the Resist and Materials Development Center as the world's preeminent EUV imaging resource, increased the number of SEMATECH lithography program members from one to nine, and created the EUV Mask Infrastructure (EMI) Partnership to focus industry-wide investment in critical EUV tool development activities. Dr. Rice is the author of numerous publications on lithography and metrology. He holds eleven United States patents.



June 28 (Tuesday) 8:45 am:

Dr. Jianguang Li (Director, Institute of Plasma Physics, Hefei, China):
The Future of Fusion

Professor Li is the Director of Institute of Plasma Physics, Chinese Academy of Science (ASIPP). He has worked in the field of fusion research for nearly 30 years. His main efforts have focused on plasma wave interaction, plasma wall interaction and tokamak operation. He has led the HT-7 physics experiments since 1996. He joined the EAST project beginning with its construction in 1998 and has led its experimental program since 2006. For past few years he has concentrated on advanced steady-state operation in EAST, the activities of the Chinese Domestic Agency of ITER, and the Chinese next step fusion development strategy.



ICOPS 2011 SOFE

Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois



- [Welcome](#)
- [Registration](#)
- [Conference Location](#)
- [Key Personnel](#)
- [Technical Program](#)
- [Plenary Speakers](#)
- [Abstract Submission](#)
- [Important Deadlines](#)
- [Travel Information](#)
- [Visa Information](#)
- [Accommodations](#)
- [Presenter Instructions](#)
- [Exhibition](#)
- [Downloads](#)
- [MiniCourse](#)
- [Social Events](#)
- [Student Travel Grants](#)
- [Student Awards](#)
- [Job Placement](#)
- [Private](#)
- [Sponsors](#)

ICOPS

- [Topics](#)
- [Committee](#)
- [IEEE TPS Special issue](#)
- [Past/Future ICOPS](#)
- [Plasma Conferences](#)

SOFE

- [Topics](#)
- [Committee](#)
- [SOFE Manuscript](#)
- [SOFE TPS Special Issue](#)

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Abstract Submission

Abstract Submission is Closed.

Electronic abstract submission is available from this location starting January 3, 2011.
Abstracts are due on March 9, 2011.

1. Please download these templates for preparing abstracts:
 - ICOPS (.doc, .pdf)
 - SOFE (.doc, .pdf)
2. For ICOPS authors only, please ensure that your abstract fully complies with IEEE Xplore requirements (SOFE authors will need this for their conference proceedings paper). Use [PDF eXpress](#) to confirm compliance. The Conference ID is "**icops11x**".
3. Review the procedure for submitting abstracts:
 - All abstracts are submitted electronically.
 - Start by logging in to the abstract submission web site. Usernames from ICOPS/SOFE2009 are still valid. If you do not already have an account, then please create one.
 - Go to "Paper Submission".
 - Create a new draft paper for either ICOPS or SOFE.
 - Enter all requested data (title, authors, etc) and select "Save Data".
 - Upload your abstract pdf file. Review if desired. Click on "Continue submission".
 - The submission is still a DRAFT. You must "Submit This Draft Abstract" to complete submission. At that point, no more changes can be made.
 - **For ICOPS authors ONLY:** you must assign copyright to IEEE before abstracts can be published. Please follow the instructions provided. (If you have any difficulty in submitting the signed copyright form online, then email or fax the signed form to ICOPS conference secretary. Download copyright form [DOC](#); [PDF](#)).
4. Now you read the instruction. Start submission at the abstract submission webpage.

[Link to Abstract submission webpage](#)

If you need a visa to enter United States, please contact [Kathleen Lukazik](#) **AS SOON AS** you submit your abstract along with duly filled [visa assistance form](#) to request an invitation letter. Please visit [Visa information page](#) for more details. Please note that visa invitation letter will be issued only after the acceptance of attendee's abstract.



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Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois

Welcome, IEEE ICOPS-SOFE11 Conference authors.

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ICOPS 2011 SOFE



Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois

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ICOPS 2011 SOFE

Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois



- [Welcome](#)
- [Registration](#)
- [Conference Location](#)
- [Key Personnel](#)
- [Technical Program](#)
- [Plenary Speakers](#)
- [Abstract Submission](#)
- [Important Deadlines](#)
- [Travel Information](#)
- [Visa Information](#)
- [Accommodations](#)
- [Presenter Instructions](#)
- [Exhibition](#)
- [Downloads](#)
- [MiniCourse](#)
- [Social Events](#)
- [Student Travel Grants](#)
- [Student Awards](#)
- [Job Placement](#)
- [Private](#)
- [Sponsors](#)

Key Dates

Registration & Abstract Submission Opens	January 3, 2011
Abstract Submission Period Closes	March 9, 2011
Notice of Abstract Acceptance	April 1, 2011
Early Registration Period Closes	May 15, 2011

Registration

ICOPS

- [Topics](#)
- [Committee](#)
- [Past/Future ICOPS](#)
- [Plasma Conferences](#)

SOFE

- [Topics](#)
- [Committee](#)
- [SOFE Manuscript](#)
- [SOFE TPS Special Issue](#)

[Email ICOPS-SOFE 2011](#)

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38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois



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- Registration
- Conference Location
- Key Personnel
- Technical Program
- Plenary Speakers
- Abstract Submission
- Important Deadlines
- Travel Information
- Visa Information
- Accommodations
- Presenter Instructions
- Exhibition
- Downloads
- MiniCourse
- Social Events
- Student Travel Grants
- Student Awards
- Job Placement
- Private
- Sponsors

Travel Information

Chicago is served by two major airports: [O'Hare International Airport \(ORD\)](#) and [Midway Airport \(MDW\)](#). There are plenty of taxis from both to and from the city center. [CTA trains](#) provide direct service to both larger airports— faster than a taxi during rush hour and a lot less expensive.

[O'Hare International Airport](#) is 23 miles northwest of downtown and serves many international and domestic carriers. Most connecting flights for smaller cities in the Midwest run through O'Hare. It's one of the biggest airports in the world. The CTA Blue Line runs between the Loop and O'Hare in 48-60 sluggish minutes.

[Midway International Airport](#) is 10 miles southwest of downtown. The CTA Orange Line train runs between the Loop and Midway in around 25 minutes.

Hotel Address

[Hyatt Regency McCormick Place](#)

2233 South Martin L. King Drive,
Chicago, Illinois, USA 60616-9985

Tel: +1 312 567 1234 Fax: +1 312 528 4000

ICOPS

- Topics
- Committee
- IEEE TPS Special issue
- Past/Future ICOPS
- Plasma Conferences

SOFE

- Topics
- Committee
- SOFE Manuscript
- SOFE TPS Special Issue

[Email ICOPS-SOFE 2011](#)

Transportation Options from Airports

There are many options for travel between the O'Hare and Midway airports and the conference hotel with a wide range in price and travel time.

Airport Shuttles and Taxis

<http://mccormickplace.hyatt.com/hyatt/hotels/services/transportation/index.jsp>

Public Transportation

Chicago Transity Authority (CTA) <http://www.transitchicago.com/maps/>

The CTA "L" trains provide inexpensive (\$2.25) and efficient connections from the airports to downtown Chicago. However to reach the Hyatt McCormick Place hotel an additional connection is required. Options for the second connection are Taxi (~\$10), METRA train (\$2.25), and CTA Bus (\$2.25). To connect from the L to the METRA or CTA bus stop involves a short walk of a few blocks.

The CTA web site includes a Trip Planner with links to Google Transit and Goroo which suggest routes including real-time scheduling. The following are options.

From O'Hare take the [Blue Line L](#) from Terminal #2 to the Jackson stop for Taxi or walk 3 blocks east to Michigan Avenue CTA [Bus 3 King Drive](#) bus stop or walk 3 blocks east on

Michigan and 1 block south to Van Buren to [METRA Van Buren Station](#) connection to [McCormick Place Station](#).

From Midway take the [Orange Line L](#) from Ticketing on Level 2 to the Roosevelt stop for Taxi or walk 2 blocks east to Michigan Avenue CTA [Bus 3 King Drive](#) bus stop.

Taxis in Chicago

Taxi fare finder <http://chicago.taxiwiz.com>

- Most cabs can accept credit cards as payment. However, it's a good idea to ask your driver ahead of time, especially if you don't have enough cash.
- Cab fare in Chicago starts at \$2.25 (once the cab begins driving) and increases \$0.20 for each 1/9th of a mile. Look for a meter in the front seat to monitor your fare."
- Most cabs charge flat rates from downtown Chicago to O'Hare or Midway Airport. This rate is usually posted in your cab.
- If you have one additional passenger between the ages of 12 and 65, there is an additional \$1 charge. There is a \$0.50 charge for each passenger after that.
- To cover rising gas costs, a new ordinance allows a surcharge of \$1 to be added to all fares if the average gas price in Chicago exceeds \$3.20 for seven consecutive business days.
- It is standard to tip the driver about 15 percent of the fare. An additional \$1 or \$2 per bag can be added if the driver helps you with luggage.
- If you're including the cab ride as a business expense, request a receipt.



ICOPS 2011 SOFE

Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois



- Welcome
- Registration
- Conference Location
- Key Personnel
- Technical Program
- Plenary Speakers
- Abstract Submission
- Important Deadlines
- Travel Information
- Visa Information
- Accommodations
- Presenter Instructions
- Exhibition
- Downloads
- MiniCourse
- Social Events
- Student Travel Grants
- Student Awards
- Job Placement
- Private
- Sponsors

Visa Information for Foreign Travelers

All nationals and citizens of Visa Waiver Program (VWP) countries who plan to travel to the U.S. for temporary business or pleasure for 90 days or less will be required by law to obtain travel authorization prior to initiating travel to the United States. This authorization can be obtained online through the Electronic System for Travel Authorization (ESTA), a free Internet application administered by the U.S. Department of Homeland security.

For additional information about the ESTA please visit <http://www.cbp.gov/esta>.

Travelers from countries not in the VWP are required to obtain a Visa upon entry into the United States. Visa applications are currently subject to a greater degree of scrutiny than in the past. Many applicants may be required to appear in person for an interview as a part of the visa process. Applicants affected by these procedures are informed of the need for additional screening at the time they submit their application and are being advised to expect delays. Therefore, conference participants are advised to apply for visa no later than 3 months prior to the conference.

If you need a visa, please contact [Kathleen Lukazik](#) **AS SOON AS** you submit your abstract (abstract submission deadline is February 15, 2011) along with duly filled [visa assistance form](#) to request an invitation letter.

Visa invitation letters will only be issued to:

- People the Committee knows
- Speakers/Presenters
- Committee members
- Attendees who have paid their registration fees in full and are not from one of the countries embargoed by the U.S. Treasury Department's Office of Foreign Assets Control

Additional information about visa can be found at http://travel.state.gov/visa/visa_1750.html

ICOPS

- Topics
- Committee
- IEEE TPS Special issue
- Past/Future ICOPS
- Plasma Conferences

SOFE

- Topics
- Committee
- SOFE Manuscript
- SOFE TPS Special Issue

Email ICOPS-SOFE 2011



ICOPS 2011 SOFE

Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois



- [Welcome](#)
- [Registration](#)
- [Conference Location](#)
- [Key Personnel](#)
- [Technical Program](#)
- [Plenary Speakers](#)
- [Abstract Submission](#)
- [Important Deadlines](#)
- [Travel Information](#)
- [Visa Information](#)
- [Accommodations](#)
- [Presenter Instructions](#)
- [Exhibition](#)
- [Downloads](#)
- [MiniCourse](#)
- [Social Events](#)
- [Student Travel Grants](#)
- [Student Awards](#)
- [Job Placement](#)
- [Private](#)
- [Sponsors](#)

ICOPS

- [Topics](#)
- [Committee](#)
- [IEEE TPS Special issue](#)
- [Past/Future ICOPS](#)
- [Plasma Conferences](#)

SOFE

- [Topics](#)
- [Committee](#)
- [SOFE Manuscript](#)
- [SOFE TPS Special Issue](#)

Email ICOPS-SOFE 2011

Accommodation

The conference hotel, which is the venue for all technical sessions, is the [Hyatt Regency McCormick Place](#) in Chicago. We have negotiated a discounted rate of \$235 for a single/double per night plus taxes (the group rate deadline is June 5, 2011), and will provide a significant number of rooms at the prevailing government rate. Please note that you MUST present a Government ID at check-in to receive the government rate; otherwise you will be charged the regular conference rate.

NOTE: There are two (2) Hyatt Regency Hotels in Chicago - the Hyatt Regency McCormick Place is NOT downtown. By choosing to stay at the conference hotel, you have the convenience of not paying for a taxi roundtrip each day. In addition, we have negotiated free wifi internet in the guestrooms.

Please make your [hotel reservations](#) immediately to guarantee your accommodations.

Hotel Overview

Hyatt Regency McCormick Place [[Hotel Information](#)] [[Make Reservations](#)]
 2233 South Martin L. King Drive
 Chicago, Illinois, USA 60616-9985
 Tel: +1 312 567 1234
 Fax: +1 312 528 4000

Visit [Travel Information](#) web page for obtaining details about transport from Chicago airports to Conference hotel.





ICOPS 2011 SOFE

Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois



- Welcome
- Registration
- Conference Location
- Key Personnel
- Technical Program
- Plenary Speakers
- Abstract Submission
- Important Deadlines
- Travel Information
- Visa Information
- Accommodations
- Presenter Instructions
- Exhibition
- Downloads
- MiniCourse
- Social Events
- Student Travel Grants
- Student Awards
- Job Placement
- Private
- Sponsors

ICOPS

- Topics
- Committee
- IEEE TPS Special issue
- Past/Future ICOPS
- Plasma Conferences

SOFE

- Topics
- Committee
- SOFE Manuscript
- SOFE TPS Special Issue

Email ICOPS-SOFE 2011

Instructions for Oral and Poster Presentations

Oral Presentations

Presentations must be uploaded onto the central server at least two hours prior to the beginning of your session. Speakers will not be allowed to connect personal computers to the projector, and session chairs will not be able to load presentations during oral sessions.

At the conference, the "Presentation Upload Center" located in the Prairie Center Internet Cafe will be available for checking the content of your presentation and uploading it to the central server. Presentations may be uploaded from CD, DVD, or USB flash drive. Only Power Point presentations (.ppt) and Adobe Acrobat files (.pdf) will be accepted, as the available software includes Microsoft Office and Adobe Acrobat Reader.

A laptop computer, projector, laser pointer, slide advancer, and lapel microphone will be available in each oral session room. Your uploaded presentation will be available from the central server in each session room.

For ICOPS/SOFE Joint Plenary Speakers: Presenters should plan for 50 minutes (+10 minutes of question time) for the Opening Plenary (Monday), and for 40 minutes (+ 5 minutes of question time) for the Joint Plenaries (Tuesday).

For ICOPS Speakers: Presenters should plan for 40 minutes (+ 10 minutes of question time) for plenary presentations, 25 minutes (+ 5 minutes of question time) for invited presentations, and 12 minutes (+ 3 minutes of question time) for contributed oral presentations.

For SOFE Speakers: Presenters should plan for 25 minutes (+ 5 minutes of question time) for plenary presentations, 20 minutes (+ 5 minutes of question time) for invited presentations, and 15 minutes (+ 5 minutes of question time) for oral contributions.

Poster Presentations

The poster sessions will be located in CC11 AB and CC12 A-D. Posters must fit on a 4' (four feet high) x 8' (eight feet wide) poster board. Please refer to the At-A-Glance schedules for ICOPS and SOFE to determine poster session locations and times. The poster presenter is expected to remain at the poster site during the entire time allotted to the poster session. Each poster has been assigned a number, and must be mounted on the appropriately numbered board. (You can check the number by referring to the printed or on-line program.)

SOFE posters will be in the morning sessions (10 AM to Noon) and must be mounted by 9 AM on the day of the poster session, and taken down immediately following the session.

ICOPS posters will be presented in the afternoon sessions (1 PM to 3 PM) and must be mounted by 12:30 PM on the day of the poster session, and taken down by 3:30 PM the same day.



ICOPS 2011 SOFE

Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois



- [Welcome](#)
- [Registration](#)
- [Conference Location](#)
- [Key Personnel](#)
- [Technical Program](#)
- [Plenary Speakers](#)
- [Abstract Submission](#)
- [Important Deadlines](#)
- [Travel Information](#)
- [Visa Information](#)
- [Accommodations](#)
- [Presenter Instructions](#)
- [Exhibition](#)
- [Downloads](#)
- [MiniCourse](#)
- [Social Events](#)
- [Student Travel Grants](#)
- [Student Awards](#)
- [Job Placement](#)
- [Private](#)
- [Sponsors](#)

ICOPS

- [Topics](#)
- [Committee](#)
- [IEEE TPS Special issue](#)
- [Past/Future ICOPS](#)
- [Plasma Conferences](#)

SOFE

- [Topics](#)
- [Committee](#)
- [SOFE Manuscript](#)
- [SOFE TPS Special Issue](#)

Dear Prospective Exhibitor,

It is our pleasure to invite you and your company to join us at the 2011 IEEE International Conference on Plasma Science (ICOPS) / Symposium on Fusion Engineering (SOFE). We are anticipating more than 700 attendees representing Universities, Laboratories, and Corporations from across the globe.

ICOPS/SOFE 2011 will be held from June 26-30, 2011 in [Chicago, Illinois](#) at the [Hyatt Regency McCormick Place](#). [Chicago](#), America's Second City, is an exciting town with endless possibilities. The McCormick Center is a premier venue for hosting the 2011 ICOPS/SOFE Conference. It is easily accessible by a variety of roads, highways, rail stations, and two major airports.

We cordially invite you to become an exhibitor at ICOPS/SOFE 2011 conference to highlight your company's products. This year's conference is co-located with IEEE Pulsed Power Conference, June 19-23, 2011. The bonus comes in the fact that we are extending a \$500 discount if you exhibit at both conferences. The value add to you is – one shipping cost covers two conferences.

Our [exhibitor prospectus](#) is designed to provide you with the highest degree of interaction with our many attendees. In addition to the basic booth packages, we are soliciting sponsorship for other aspects of the conference, including social events, food & beverage breaks, banquets, student travel grants, etc. If interested in the additional patronage opportunities, please email Charles Gentile cgentile@pppl.gov.

We have a limited number of exhibitor spaces available, thus we recommend that you make a reservation at your earliest convenience. Priority booths will be provided on a first come, first served basis.

To reserve a space please contact;

Lukrecija Lelong, CMP,
IEEE, Meeting & Conference Management
445 Hoes Lane, Piscataway, NJ 08854-4141 USA
Phone: +1 732 562 5441, E-mail: l.lelong@ieee.org

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ICOPS 2011 SOFE

Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois



- [Welcome](#)
- [Registration](#)
- [Conference Location](#)
- [Key Personnel](#)
- [Technical Program](#)
- [Plenary Speakers](#)
- [Abstract Submission](#)
- [Important Deadlines](#)
- [Travel Information](#)
- [Visa Information](#)
- [Accommodations](#)
- [Presenter Instructions](#)
- [Exhibition](#)
- [Downloads](#)
- [MiniCourse](#)
- [Social Events](#)
- [Student Travel Grants](#)
- [Student Awards](#)
- [Job Placement](#)
- [Private](#)
- [Sponsors](#)

Downloads

- [Download the block schedule of the ICOPS 2011 technical program.](#)
- [Download full technical program of ICOPS 2011.](#)
- [Download the block schedule of the SOFE 2011 technical program.](#)
- [Download full technical program of SOFE 2011.](#)

Poster of ICOPS/SOFE 2011

[Image](#)
[PDF](#)

Second Announcement & Call for papers (PDF)

Exhibit Prospectus

Visa Assistance Form

ICOPS

- [Topics](#)
- [Committee](#)
- [IEEE TPS Special issue](#)
- [Past/Future ICOPS](#)
- [Plasma Conferences](#)

SOFE

- [Topics](#)
- [Committee](#)
- [SOFE Manuscript](#)
- [SOFE TPS Special Issue](#)

[Email ICOPS-SOFE 2011](#)



ICOPS 2011 SOFE

Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois



- [Welcome](#)
- [Registration](#)
- [Conference Location](#)
- [Key Personnel](#)
- [Technical Program](#)
- [Plenary Speakers](#)
- [Abstract Submission](#)
- [Important Deadlines](#)
- [Travel Information](#)
- [Visa Information](#)
- [Accommodations](#)
- [Presenter Instructions](#)
- [Exhibition](#)
- [Downloads](#)
- [MiniCourse](#)
- [Social Events](#)
- [Student Travel Grants](#)
- [Student Awards](#)
- [Job Placement](#)
- [Private](#)
- [Sponsors](#)

ICOPS

- [Topics](#)
- [Committee](#)
- [IEEE TPS Special issue](#)
- [Past/Future ICOPS](#)
- [Plasma Conferences](#)

SOFE

- [Topics](#)
- [Committee](#)
- [SOFE Manuscript](#)
- [SOFE TPS Special Issue](#)

Fundamentals of Plasma Material Interactions for Fusion and Industrial Applications

As part of ICOPS-SOFE 2011, a special one-day minicourse on Fundamentals of Plasma Material Interactions (PMI) for Fusion and Industrial Applications will be offered on Saturday June 25th. The mini course will be held at the Conference Venue Hotel (Hyatt Regency McCormick Place, Chicago). A group of international experts from academia and industry will provide a set of comprehensive lectures on plasma material interactions and their applications. The aim of the mini-course is to provide a comprehensive introduction of plasma-material interactions with emphasis on fusion and industrial plasmas. This mini-course will address rising interest in the area of plasma-material interactions and will in part introduce the breadth and depth of the subject in areas including: plasma-surface interactions in fusion edge plasmas, plasma processing of micro and nanoelectronics with industrial plasmas, biomaterials plasma treatments, plasma propulsion applications and other relevant areas where the plasma/material interface plays a crucial role in materials performance and behavior. A unique aspect of this mini-course is to bring instructors that not only have an expertise in plasma-material interactions but also extensive experience both in PMI experiments and atomistic/multi-scale computational PMI modeling. The course will uniquely describe the challenges of PMI experiments and computational modeling and the areas in which these two thrusts can complement each other. The title of the course uses the concept of “*industrial plasmas*” to include all non-fusion areas where plasmas play a critical role on the modification and processing of materials. This area has also included the use of both plasma and ion-beam interaction with advanced material surfaces modified at the nanoscale. Therefore this course will also discuss recent progress on the role nanotechnology in the area of PMI both for fusion and industrial plasmas applications. The course instructors include leading researchers in the areas of experimental and computational plasma-material interactions. They include: Prof. David N. Ruzic from the University of Illinois at Urbana-Champaign, Prof. Jean Paul Allain from Purdue University, Prof. Brian Wirth from University of Tennessee and Dr. Predrag Krstic from Oak Ridge National Laboratory.

Who should attend:

The course is designed for students, engineers, and scientists from academia and industry. The instructors will provide both introductory and advanced coverage of PMI. NPSS students are encouraged to apply Phelps grant for meeting Minicourse expenses.

Email ICOPS-SOFE 2011

The Phelps Grant for attending ICOPS Minicourse

Course Outline

8:15-8:30	<i>Introduction and Overview</i> , Prof. J.P. Allain
8:30-9:40	<i>Fundamentals of PMI</i> , Instructor: Prof. D.N. Ruzic
9:40-10:40	<i>PMI in fusion devices</i> , Prof. J.P. Allain
10:40-11:00	Break
11:00-Noon	<i>PMI in industrial plasmas</i> , Prof. D.N. Ruzic
Noon	Lunch

13:00-14:20	<i>Introduction to PMI computational science</i> , Dr. Predrag Krstic
14:20-15:30	<i>Multi-scale Modeling in fusion PMI</i> , Prof. Brian Wirth
15:30-15:45	Break
15:45-16:15	<i>Computational PMI of industrial plasmas</i> , Prof. D.N. Ruzic
16:15-17:00	<i>Progress in PMI Nanotechnology</i> , Prof. J.P. Allain

Minicourse Registration Fees:

	Before May 15	After May 15
Regular	\$500	\$600
Student	\$250	\$350

To register online or by fax or mail go to the conference registration page and follow the instructions.

Mini-course Organizer:

Prof. Jean Paul Allain
 Purdue University
 Email: allain@purdue.edu

[Download MiniCourse Details](#)



ICOPS 2011 SOFE

Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois



- Welcome
- Registration
- Conference Location
- Key Personnel
- Technical Program
- Plenary Speakers
- Abstract Submission
- Important Deadlines
- Travel Information
- Visa Information
- Accommodations
- Presenter Instructions
- Exhibition
- Downloads
- MiniCourse
- Social Events
- Student Travel Grants
- Student Awards
- Job Placement
- Private
- Sponsors

The Phelps Grant for ICOPS Minicourse Expenses

The 2011 Paul Phelps Continuing Education Grant will be awarded to two students attending the ICOPS special one-day minicourse on “*Fundamentals of Plasma Material Interactions (PMI) for Fusion and Industrial Applications*”. The course will be offered on Saturday June 25th at the ICOPS -SOFE Conference Venue Hotel (Hyatt Regency McCormick Place, Chicago). A group of international experts from academia and national laboratories will provide a set of comprehensive lectures on plasma material interactions and their applications.

The purpose of the Phelps Grant is to promote continuing education and encourage membership in the Nuclear and Plasma Sciences Society (NPSS). Please note that the award is restricted to NPSS student members and NPSS members changing careers. The award will cover up to a maximum of \$500 of the costs associated with attending this minicourse (e.g., course registration fee, hotel cost, etc). Applicants should submit one-paragraph justifications of why they feel the course will benefit them and why they need the support to hassanein@purdue.edu by 1 June 2011. (Later applications also may be considered, if funds remain.)

ICOPS

- Topics
- Committee
- IEEE TPS Special issue
- Past/Future ICOPS
- Plasma Conferences

SOFE

- Topics
- Committee
- SOFE Manuscript
- SOFE TPS Special Issue

Email ICOPS-SOFE 2011



ICOPS 2011 SOFE

Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois



- [Welcome](#)
- [Registration](#)
- [Conference Location](#)
- [Key Personnel](#)
- [Technical Program](#)
- [Plenary Speakers](#)
- [Abstract Submission](#)
- [Important Deadlines](#)
- [Travel Information](#)
- [Visa Information](#)
- [Accommodations](#)
- [Presenter Instructions](#)
- [Exhibition](#)
- [Downloads](#)
- [MiniCourse](#)
- [Social Events](#)
- [Student Travel Grants](#)
- [Student Awards](#)
- [Job Placement](#)
- [Private](#)
- [Sponsors](#)

ICOPS

- [Topics](#)
- [Committee](#)
- [IEEE TPS Special issue](#)
- [Past/Future ICOPS](#)
- [Plasma Conferences](#)

SOFE

- [Topics](#)
- [Committee](#)
- [SOFE Manuscript](#)
- [SOFE TPS Special Issue](#)

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Social Events

****Note - Registration Badges must be worn for admittance to ALL events. All social functions are mainly adults only events****

- June 26 (5.00pm-7.00pm): Welcome Reception
- June 27 (5.00pm-7.00pm): Reception for IEEE members and Women in Engineering (WIE)
- June 28 (6.00am): 5K FUN run
- June 28 (6.00pm-9.00pm): House of Blues (live music and cuisine)
- June 29 (6.00pm-10:00pm): ICOPS & SOFE Banquet

Sunday June 26: Welcome Reception

ICOPS/SOFE will host a welcome reception on Sunday evening, June 26, 2011. This event is open to all registered conference attendees and is included in your registration fee. Additional tickets for guests can be purchased during the registration process. Please be sure to stop by and take advantage of this networking opportunity.

Monday June 27: Reception for Women in Engineering and IEEE members

ICOPS will host a welcome reception on Monday evening, June 27, 2011. This event is open to Women in Science and Engineering and IEEE members. Key women in engineering will speak in this event. Reception with food, drinks, and entertainment will be provided.

Tuesday June 28: 5K FUN Run

The conference organizers are working to put together a well-rounded program for you. The first ever, ICOPS/SOFE 5K FUN Run will be held at 6 am on Tuesday, June 28, 2011. This will be for people of all levels - exercise enthusiasts and first time runners - ALL are welcome to participate and have FUN. Be sure to indicate your interest during the registration process - more information to come.

Tuesday June 28: House of Blues - ICOPS/SOFE Restaurant Exclusive - A can't miss EVENT!!

The conference organizers have secured the House of Blues - exclusively for a joint event for all ICOPS/SOFE conference attendees on Tuesday, June 28, 2011 from 6:00pm-9:00pm. The House of Blues, Chicago has grown into a premier live music club venue for touring bands. Come out and join your conference attendees for a fun filled evening of live music and southern-inspired cuisine. There will be a one hour host-bar then cash bar for the remainder of the evening. Transportation to the event will be provided. Please be sure to purchase your ticket for a nominal fee of US\$30 during the registration process. Space is limited and is on a first come basis.



Wednesday June 29: ICOPS Banquet

The ICOPS Banquet will be on Wednesday, June 29, 2011 6:00pm-10:00pm aboard [The Odyssey - the largest fine-dining cruise ship](#) on the Great Lakes. ICOPS guest will sail into the sunset on Lake Michigan as they take in the beautiful Chicago Skyline. Savor creative appetizers, entrees and mouth-watering desserts while listening to live jazz music. Be sure to bring your camera. The ship sets sail from Navy Pier and transportation will be provided. Space is limited and tickets will be issued on a first come basis. Tickets and can be purchased for US\$50 during the on-line registration process and at the Registration Desk on-site (If available).



Wednesday June 29: SOFE Banquet

The SOFE Banquet will be held on Wednesday, June 29, 2011 6:30pm- 10:30pm at [the Adler Planetarium - America's First Planetarium](#), founded in 1930 by Chicago business leader Max Adler. The museum is closed to the public for this exclusive SOFE event and is home to three full-size theaters, extensive space science exhibitions, and one of the world's most important antique astronomical instrument collections. SOFE guests will delight in a sophisticated, unique, entertaining dining experience while taking in the breathtaking views of Chicago's skyline and Lake Michigan. Exclusive telescope viewing will be available on the terrace. Transportation to the Adler Planetarium will be provided. Space is limited and tickets will be issued on a first come basis. Tickets and can be purchased for US\$50 during the on-line registration process and at the Registration Desk on-site (If available).



ICOPS 2011 SOFE

Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois



- [Welcome](#)
- [Registration](#)
- [Conference Location](#)
- [Key Personnel](#)
- [Technical Program](#)
- [Plenary Speakers](#)
- [Abstract Submission](#)
- [Important Deadlines](#)
- [Travel Information](#)
- [Visa Information](#)
- [Accommodations](#)
- [Presenter Instructions](#)
- [Exhibition](#)
- [Downloads](#)
- [MiniCourse](#)
- [Social Events](#)
- [Student Travel Grants](#)
- [Student Awards](#)
- [Job Placement](#)
- [Private](#)
- [Sponsors](#)

Student Travel Grants

A limited number of travel grants are available to encourage students who are IEEE members to attend ICOPS-SOFE 2011.

Only "First author" abstracts submitted by students are eligible for travel grant. Moreover, the abstract should be original (not published elsewhere).

Applicants should submit the following information by April 8, 2011.

- Copy of submitted abstract
- IEEE membership number
- Proposed travel budget to the conference (cost sharing with other students is encouraged)

Applications have to be done online. Visit the [Student Grant Application web](#) and submit the application.

Two letters of recommendation, one of which is from the student's advisor, stating the importance of the research to be presented. For submitting letters of recommendation visit [Student Travel Grant Recommendation web](#).

ICOPS

- [Topics](#)
- [Committee](#)
- [IEEE TPS Special issue](#)
- [Past/Future ICOPS](#)
- [Plasma Conferences](#)

SOFE

- [Topics](#)
- [Committee](#)
- [SOFE Manuscript](#)
- [SOFE TPS Special Issue](#)

Email ICOPS-SOFE 2011



Student Travel Grant Application

Due date: April 8, 2011

Today's date: Saturday, July 16, 2011

Please fill out the entire form below to apply for travel assistance to the 38th International Conference on Plasma Science & 24th Symposium on Fusion Engineering. Travel grants are available only to those students presenting as a first author. If your application is approved, your registration fee will be waived. In addition, you can elect to receive either (a) four nights (Sun-Wed) in the conference hotel in a shared room (double occupancy) or (b) two nights in the conference hotel in a single occupancy room. (The grant committee will arrange same-sex roommates for the grant recipients that choose double occupancy.)

Your family name:

Your given name:

Hotel stay options:

Your email address:

Your phone number:

Your postal mailing address:

Your IEEE member number ([join](#)):

Conference

Will you be attending a short course?

Please provide the title, authors and text of your submitted abstract:

Budget in \$US (please include airfare, other transportation, registration, lodging, per diem and other costs (this is to determine need):

airfare:	
other transportation:	
registration fee:	
lodging:	
per diem:	
other costs:	
TOTAL:	

Other comments:

--

Send Form



ICOPS 2011 SOFE

Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois



- [Welcome](#)
- [Registration](#)
- [Conference Location](#)
- [Key Personnel](#)
- [Technical Program](#)
- [Plenary Speakers](#)
- [Abstract Submission](#)
- [Important Deadlines](#)
- [Travel Information](#)
- [Visa Information](#)
- [Accommodations](#)
- [Presenter Instructions](#)
- [Exhibition](#)
- [Downloads](#)
- [MiniCourse](#)
- [Social Events](#)
- [Student Travel Grants](#)
- [Student Awards](#)
- [Job Placement](#)
- [Private](#)
- [Sponsors](#)

BEST STUDENT PAPER AWARDS

The "Best Student Presentation Awards" were established in 2005 by the IEEE Nuclear and Plasma Sciences Society.

The purpose of these awards is to encourage both outstanding student contributions and greater student participation as principal or sole authors of papers as well as to acknowledge the importance of student contributions to the fields embraced by the NPSS umbrella. The two best submissions (two awards) will receive cash awards of \$500 and a Certificate. The two runners-up will receive a Certificate only..

Any student who is the principal author/researcher and the presenter of either an oral or poster paper at the ICOPS 2011 conference and who has been identified as an eligible student author will be eligible. If there is a tie, preference will be given 1) to IEEE NPSS members, 2) to IEEE members; 3) to non-IEEE members.

All candidates for selection must have identified themselves at the time of abstract submission. Upon notification of acceptance of the abstract, the award candidate should arrange to have his/her advisor or research supervisor provide an endorsement of the work to the awards committee. The necessary contact information, as well as additional instructions for the presentation will be provided at that time. At the conference, the on-site awards committee will rank the papers for technical content and originality first. Other criteria such as graphic display and clarity of data presentation may be considered.

ICOPS

- [Topics](#)
- [Committee](#)
- [Past/Future ICOPS](#)
- [Plasma Conferences](#)

SOFE

- [Topics](#)
- [Committee](#)
- [SOFE Manuscript](#)
- [SOFE TPS Special Issue](#)

Email ICOPS-SOFE 2011



ICOPS 2011 SOFE

Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois



- Welcome
- Registration
- Conference Location
- Key Personnel
- Technical Program
- Plenary Speakers
- Abstract Submission
- Important Deadlines
- Travel Information
- Visa Information
- Accommodations
- Presenter Instructions
- Exhibition
- Downloads
- MiniCourse
- Social Events
- Student Travel Grants
- Student Awards
- Job Placement
- Private
- Sponsors

ICOPS

- Topics
- Committee
- IEEE TPS Special issue
- Past/Future ICOPS
- Plasma Conferences

SOFE

- Topics
- Committee
- SOFE Manuscript
- SOFE TPS Special Issue

Email ICOPS-SOFE 2011

Job Placement Center

A job placement center will be set up at the 2011 ICOPS /SOFE. The placement center serves to facilitate contact between individuals seeking work and prospective employers (including those in private industry, federal labs and universities). The placement center is a free, voluntary service for several related fields including: plasma physics, pulsed power, high power microwaves and fusion.

Job postings are listed below and will be displayed at the conference on a bulletin board for the Job Placement Center. Resumes will be available to registered job placement center recruiters at the link below and there will also be a book of hard copy resumes available at the Placement Center. Interviews will be possible onsite at ICOPS/SOFE if candidates/recruiters are available but **attendance at the conference is not a requirement to participate in the placement center!**

In previous years the placement center has been able to help engineers, physicists, mathematicians and technologists make contact with prospective employers.

Individuals interested in employment opportunities should send their resumes via email to the address below. Please include ICOPS/SOFE 2011 in the subject line. Resumes should include citizenship (needed for positions in certain research labs) and be limited to one page to be most useful. If an individual will not be attending the conference please note this when sending in the resume. Again, participation in the conference is not required to participate in the job fair.

Employers interested in recruiting should send a job posting via email marked ICOPS/SOFE 2011 to the address below. Please make a note on the posting if a position has special requirements such as extended travel duties or the ability to obtain a security clearance. If an employer would like to interview applicants at the conference, please note this when sending in the job posting (space will be provided for interviews). Registration information will be sent to the employer contact allowing the resumes on this website to be accessed.

Participants with questions should feel free to contact Dr. William White at wmwhite@ieee.org.

[View Resumes \(password protected\)](#)

Job postings

1. Postdoctoral Scholar in Laser-Plasma Sources (UC San Diego, CA)
2. Postdoctoral Position in Low-temperature Plasma Modeling (Sandia National Laboratory, NM)
3. Computational Scientist - Plasma physics & Electromagnetics (Applied Materials, CA)
4. Physicist & Engineers (Tri Alpha Energy, CA)
5. Electrical Engineers (Sandia National lab)
6. Plasma Physicist (Lawrenceville Plasma Physics)
7. Electrical Engineer (PPPL)
8. Electronics Engineer (PPPL)



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- [Welcome](#)
- [Registration](#)
- [Conference Location](#)
- [Key Personnel](#)
- [Technical Program](#)
- [Plenary Speakers](#)
- [Abstract Submission](#)
- [Important Deadlines](#)
- [Travel Information](#)
- [Visa Information](#)
- [Accommodations](#)
- [Presenter Instructions](#)
- [Exhibition](#)
- [Downloads](#)
- [MiniCourse](#)
- [Social Events](#)
- [Student Travel Grants](#)
- [Student Awards](#)
- [Job Placement](#)
- [Private](#)
- [Sponsors](#)



ICOPS

- [Topics](#)
- [Committee](#)
- [IEEE TPS Special issue](#)
- [Past/Future ICOPS](#)
- [Plasma Conferences](#)



SOFE

- [Topics](#)
- [Committee](#)
- [SOFE Manuscript](#)
- [SOFE TPS Special Issue](#)



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ICOPS 2011 SOFE

Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois



- [Welcome](#)
- [Registration](#)
- [Conference Location](#)
- [Key Personnel](#)
- [Technical Program](#)
- [Plenary Speakers](#)
- [Abstract Submission](#)
- [Important Deadlines](#)
- [Travel Information](#)
- [Visa Information](#)
- [Accommodations](#)
- [Presenter Instructions](#)
- [Exhibition](#)
- [Downloads](#)
- [MiniCourse](#)
- [Social Events](#)
- [Student Travel Grants](#)
- [Student Awards](#)
- [Job Placement](#)
- [Private](#)
- [Sponsors](#)

ICOPS

- [Topics](#)
- [Committee](#)
- [IEEE TPS Special issue](#)
- [Past/Future ICOPS](#)
- [Plasma Conferences](#)

SOFE

- [Topics](#)
- [Committee](#)
- [SOFE Manuscript](#)
- [SOFE TPS Special Issue](#)

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ICOPS Technical Areas and Program Committee

Session area	Session Organizer	Email
1.0 Basic Processes in Fully and Partially Ionized Plasmas	David Ruzic (UIUC)	druzic@uiuc.edu
1.1 Basic Phenomena	Earl Scime (W. Virginia Univ)	escime@wvu.edu
1.2 Computational Plasma Phys.	John Verboncoeur (UCB)	johnv@eecs.berkeley.edu
1.3 Space Plasmas	Greg Howes (Univ. Iowa)	gregory-howes@uiowa.edu
1.4 Partially Ionized Plasmas	Natalia Babaeva (Univ.Mich.)	nbabaeva@umich.edu
1.5 Dusty Plasmas	John Goree (Univ. Iowa)	john-goree@uiowa.edu
2.0 Microwave Generation and Plasma Interactions	John Luginsland (AFOSR)	johnluginsland@sprintmail.com
2.1 Intense Beam Microwave Generation	Michael Haworth (AFRL)	michael.haworth@kirtland.af.mil
2.2 Fast-Wave Devices	Steven Gold (NRL)	Steven.gold@nrl.navy.mil
2.3 Slow-Wave Devices	David Abe (NRL)	david.abe@nrl.navy.mil
2.4 Vacuum Electronics	James Browning (BSU)	jimbrowning@boisestate.edu
2.5 Codes and Modeling	Keith Cartwright (AFRL)	keith.cartwright@kirtland.af.mil
2.6 Non-Fusion Microwave Systems	Manfred Thumm (KIT)	manfred.thumm@kit.edu
2.7 Microwave Plasma Interactions	Tim Bigelow (ORNL)	bigelowts@ornl.gov
2.8 THz Sources, Radiation, & Applications	Ken Kreischer (Northrup Grumman)	kenneth.kreischer@ngc.com
3.0 Charged Particle Beams and Sources	Joe Schumer (NRL)	joe.schumer@nrl.navy.mil
3.1 Plasma, Ion and Electron Sources	Evgeniya Lock (NRL)	evgeniya.lock@nrl.navy.mil
3.2 Intense Electron and Ion Beams	Scott Kovaleski (Univ. Missouri-Columbia)	kovaleskis@missouri.edu
4.0 High Energy Density Plasmas and Applications	Christine Coverdale (SNL)	cacover@sandia.gov
4.1 Fusion - Inertial, Magnetic and Alternate Concepts	Jeremy Chittenden (Imperial College)	j.chittenden@imperial.ac.uk
4.2 Particle Acceleration with Laser and Beams	Hui Chen (LLNL)	chen33@llnl.gov
4.3 Radiation Physics	Alla Safronova (Univ. Nevada Reno)	alla@physics.unr.edu
4.4 High Energy Density Matter	David Ampleford (SNL)	damplef@sandia.gov
4.5 Laser Produced Plasmas	Alexander Velikovich (NRL)	velikovich@nrl.navy.mil
4.6 Fast Z-Pinches, X-Ray Lasers	Simon Bott (Univ. Calif., San Diego)	sbott@ucsd.edu
4.7 Plasma Material Interactions	Jeffrey Brooks (Purdue University)	brooksjn@purdue.edu
5.0 Industrial, Commercial, and Medical Plasma Applications	Mounir Laroussi (ODU)	mlarouss@odu.edu
		m.g.kong@lboro.ac.uk

5.1 Non-equilibrium Plasma Applications	Michael G. Kong (Loughborough Univ., UK)	
5.2 High Pressure and Thermal Plasma Processing	Yukinori Sakiyama (UCB)	ysaki@berkeley.edu
5.3 Plasma Thrusters	Laxminarayan Raja (Univ. Texas, Austin)	lrja@mail.utexas.edu
5.4 Plasma for Lighting and Flat Panel Displays	Richard Garner (OSRAM Sylvania Inc.)	richard.garner@sylvania.com
5.5 Environmental and Industrial Applications	Xinpei Lu (HuaZhong Univ.)	luxinpei@hust.edu.cn
5.6 Plasma Medicine	Mounir Laroussi (ODU)	mlarouss@odu.edu
6.0 Plasma Diagnostics	Mary Ann Sweeney (SNL)	masween@sandia.gov
6.1 Optical and X-ray Diagnostics	Daniel Sinars (SNL)	dbsinars@sandia.gov
6.2 Microwave and FIR Diagnostics	Calvin Domier (UC Davis)	cwdomier@ucdavis.edu
6.3 Charged Particle and Nuclear Diagnostics	Hans Hermann (LANL)	Herrmann11@llnl.gov
7.0 Pulsed Power and other Plasma Applications	Ricky Faehl	afaehl@earthlink.net
7.1 Compact Pulsed Power	Michael Mazarakis (SNL)	mgmazar@sandia.gov
7.2 Insulation and Breakdown	Keith LeChien (NNSA)	Keith.LeChien@nnsa.doe.gov
7.3 Switching	Stephen Bayne (Texas Tech. Univ)	stephen.bayne@ttu.edu
7.4 Generators	Raymond Allen (NRL)	allen@nrl.navy.mil



ICOPS 2011 SOFE

Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois



- [Welcome](#)
- [Registration](#)
- [Conference Location](#)
- [Key Personnel](#)
- [Technical Program](#)
- [Plenary Speakers](#)
- [Abstract Submission](#)
- [Important Deadlines](#)
- [Travel Information](#)
- [Visa Information](#)
- [Accommodations](#)
- [Presenter Instructions](#)
- [Exhibition](#)
- [Downloads](#)
- [MiniCourse](#)
- [Social Events](#)
- [Student Travel Grants](#)
- [Student Awards](#)
- [Job Placement](#)
- [Private](#)
- [Sponsors](#)

ICOPS Key Personnel



General Chair

Dr. Ahmed Hassanein

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Technical Program Chair

Dr. Steven H. Gold

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Conference Secretary

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ICOPS

- [Topics](#)
- [Committee](#)
- [IEEE TPS Special issue](#)
- [Past/Future ICOPS](#)
- [Plasma Conferences](#)

SOFE

- [Topics](#)
- [Committee](#)
- [SOFE Manuscript](#)
- [SOFE TPS Special Issue](#)

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ICOPS 2011 SOFE

Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois



- Welcome
- Registration
- Conference Location
- Key Personnel
- Technical Program
- Plenary Speakers
- Abstract Submission
- Important Deadlines
- Travel Information
- Visa Information
- Accommodations
- Presenter Instructions
- Exhibition
- Downloads
- MiniCourse
- Social Events
- Student Travel Grants
- Student Awards
- Job Placement
- Private
- Sponsors

ICOPS

- Topics
- Committee
- IEEE TPS Special issue
- Past/Future ICOPS
- Plasma Conferences

SOFE

- Topics
- Committee
- SOFE Manuscript
- SOFE TPS Special Issue

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Special Issue of the IEEE Transactions on Plasma Science for Invited Papers from the 38th International Conference on Plasma Science 2011

The selected papers of 38th International Conference on Plasma Science will appear in a Special issue of the IEEE Transactions on Plasma Science. The ICOPS covers engineering and scientific advances in a number of fields of plasma science and technology with attendees coming from all across the world. It is one of the most important conferences in this field. The objective of this Special Issue is to bring the most up-to-date developments reported at ICOPS 2011 to the readership of IEEE Transactions of Plasma Science.

This Special Issue is restricted to plenaries and invited talks at ICOPS 2011. These papers are subject to peer review. Authors should submit their completed manuscripts to the IEEE Transactions on Plasma Science electronic submission and review website, <http://mc.manuscriptcentral.com/tps-ieee>. The following topics will be covered:

- Basic Processes in Fully and Partially Ionized Plasma
- Microwave Generation and Plasma Interaction
- Charged Particle Beams and Sources
- High Energy Density Plasmas and their Applications
- Industrial, Commercial and Medical Applications of Plasmas
- Plasma Diagnostics
- Pulsed Power and Other Plasma Applications

The tentative schedule (subject to change) is:

Invited author submission deadline for journal: **August 31, 2011**

Review deadline: **November 1, 2011**

Revised manuscripts due: **January 1, 2012**

Journal publication : **May 2012**

Additional information on manuscript submission, can be found at the journal web site <http://www.ieeetps.org>

The following will be serving as the Guest Editors for this Special Issue:

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Authors may seek additional information by contacting any one of the Guest Editors.



ICOPS 2011 SOFE

Chicago, Illinois

38th International Conference on Plasma Science and 24th Symposium on Fusion Engineering

June 26-30, 2011 | Chicago, Illinois



- [Welcome](#)
- [Registration](#)
- [Conference Location](#)
- [Key Personnel](#)
- [Technical Program](#)
- [Plenary Speakers](#)
- [Abstract Submission](#)
- [Important Deadlines](#)
- [Travel Information](#)
- [Visa Information](#)
- [Accommodations](#)
- [Presenter Instructions](#)
- [Exhibition](#)
- [Downloads](#)
- [MiniCourse](#)
- [Social Events](#)
- [Student Travel Grants](#)
- [Student Awards](#)
- [Job Placement](#)
- [Private](#)
- [Sponsors](#)

ICOPS

- [Topics](#)
- [Committee](#)
- [IEEE TPS Special issue](#)
- [Past/Future ICOPS](#)
- [Plasma Conferences](#)

SOFE

- [Topics](#)
- [Committee](#)
- [SOFE Manuscript](#)
- [SOFE TPS Special Issue](#)

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1974	University of Tennessee	Knoxville, TN	I. Alexeff
1975	University of Michigan	Ann Arbor, MI	R.R. Johnson
1976	University of Texas	Austin, TX	E.J. Powers
1977	Rensselaer Polytechnic Institute	Troy, NY	R.L. Hickok
1978	Doubletree Inn	Monterey, CA	R. Schwirzke
1979	Universite de Montreal	Montreal, Canada	C. Richard
1980	University of Wisconsin	Madison, WI	J.L. Shohet
1981	Sweeney Convention Center	Santa Fe, NM	S.J. Gitomer
1982	Carleton University	Ottawa, Canada	A.J. Alcock
1983	Sheraton Harbor Island Hotel	San Diego, CA	J.L. Luxon
1984	Clarion Hotel	St. Louis, MO	T.J. Menne
1985	Pittsburg Hilton Hotel	Pittsburg, PA	M.D. Nahemow
1986	Ramada Renaissance Hotel & Bessborough Hotel	Saskatoon, Canada	A. Hirose
1987	Hyatt Regency Crystal City	Arlington, VA	F.C. Young
1988	Seattle Sheraton Hotel	Seattle, WA	L.C. Steinhauer
1989	Hyatt Regency	Buffalo, NY	D.M. Benson
1990	Hyatt Regency	Oakland, CA	J.N. Benford
1991	College of William and Mary	Williamsburg, VA	K.H. Schoenbach
1992	Hyatt Regency Westshore	Tampa, FL	N.L. Oleson
1993	Sheraton Landmark Hotel	Vancouver, Canada	A. Ng
1994	Sweeney Convention Center	Santa Fe, NM	A.L. Peratt
1995	University of Wisconsin	Madison, WI	J.E. Scharer
1996	Boston Park Plaza Hotel	Boston, MA	C. Chan
1997	Catamaran Resort Hotel	San Diego, CA	J. Hyman
1998	North Raleigh Hilton	Raleigh, NC	J. Gilligan
1999	Doubletree Hotel	Monterey, CA	C. Deeney
2000	Fairmont Hotel	New Orleans, LA	M. Mazzola
2001	Rio Hotel and Convention Center	Las Vegas, NV	T. Hussey
2002	Banff Centre for Conferences	Banff, Canada	R. Fedosejevs
2003	Lotte Hotel	Jeju, Korea	K.-S. Chung
2004	The Hyatt Regency-Baltimore	Baltimore, MD	R.J. Commisso
2005	Portola Plaza and Conference Center	Monterey, CA	R.C. Cauble
2006	Grand Traverse Resort and Spa	Traverse City, MI	J. Asmussen
2007	Albuquerque Convention Center	Albuquerque, NM	E. Schamiloglu

2008	Congress Center Karlsruhe	Karlsruhe, Germany	M. Thumm
2009	Omni Hotel San Diego	San Diego, CA	F. Beg
2010	Marriot Waterside	Norfolk, VA	M. Laroussi
2011	Hyatt Regency McCormick Place	Chicago, IL	A. Hassanein
2012	Edinburgh Conference Centre	Edinburgh, UK	Michael Kong
2013	Hyatt Regency Embarcadero	San Francisco, CA	Bryan Oliver
2014	Marriott-Wardman Park	Washington, DC	Joe Schumer

