

XXXIV ICPIG & ICRP-10

XXXIV International Conference on Phenomena
in Ionized Gases (XXXIV ICPIG)
10th International Conference on Reactive
Plasmas (ICRP-10)
37th Symposium on Plasma Processing (SPP37)
32th Symposium on Plasma Science for Materials (SPSM32)



XXXIV ICPIG & ICRP-10 @ SAPPORO / HOKKAIDO (JAPAN)
14-19 July 2019

SECOND ANNOUNCEMENT

Welcome to XXXIV ICPIG & ICRP-10

The International Scientific Committee of ICPIG, the International Organizing Committee of ICRP and the Local Organizing Committee are pleased to invite you to the Joint Conference of XXXIV International Conference on Phenomena in Ionized Gases (XXXIV ICPIG) and 10th International Conference on Reactive Plasmas (ICRP-10), that will be held in Sapporo, Japan, from 14th to 19th of July 2019.

This edition has a substantial number of slots for contributed oral presentations, as well as traditional poster presentations, in the scientific program.

Since 1953, ICPIG has been a discussion forum for nearly all fields of plasma science. The XXXIV edition of ICPIG will be a joint conference with ICRP, organized with the scope covering the fundamentals and applications of reactive plasmas. The joint conference will be a precious opportunity to cover both modelling and experiments, from the fundamentals of plasma elementary processes, basic data and discharge physics, to applications with the plasma processing of surfaces and particles, high pressure and thermal plasma processing, radiation sources, plasma medicine, atmospheric and stellar plasmas, environmental protection and pollution control, plasma aerodynamics, and non-thermal plasmas in fusion devices.



SPECIAL ISSUE

The authors of the invited lectures and arranged sessions are invited to submit a full paper for a special issue of Plasma Sources Science and Technology (PSST) or Japanese Journal of Applied Physics (JJAP), both published by IOP Publishing. Please notice the different scopes of the two journals when making your choice. All papers need to be within the scope of the selected journal. The authors of contributed presentations (oral/poster) can submit an original paper for the conference special issue, which will be published in JJAP. Submitted papers will be subject to the usual peer-review processes of the journals. All papers published in PSST are set online as a regular within 24 hours after acceptance. The special issue is build up incrementally by linking the accepted papers to the special issue page. Therefore, publishing in the special issue is not delaying publication.

CONFERENCE TOPICS

FUNDAMENTALS

- 1) Elementary processes and fundamental data
- 2) Thermodynamics and transport phenomena
- 3) Plasma wall interactions, electrode and solid/liquid surface effects
- 4) Chemical processes in plasmas
- 5) Plasmas in/with liquid
- 6) Collective and nonlinear phenomena

MODELLING, SIMULATION, AND DIAGNOSTICS

- 7) Modelling and simulation techniques
- 8) Plasma diagnostic methods

PLASMA SOURCES AND DISCHARGE REGIMES

- 9) Astrophysical, geophysical, and other natural plasmas
- 10) Low-pressure plasmas
- 11) High-frequency discharges
- 12) Non-equilibrium plasmas and microplasmas at high and atmospheric pressures
- 13) Thermal plasmas
- 14) Complex and dusty plasmas, ion-ion plasmas, mixed phase plasmas
- 15) Plasma created by external sources of ionization

APPLICATIONS

- 16) Plasma processing of surfaces and particles (etching and deposition)
- 17) High-pressure and thermal plasma processing
- 18) Plasma lamps and radiation sources
- 19) Medical, biological, agricultural, and environmental applications
- 20) Plasma power and pulsed power technology
- 21) Particle sources and aeronautical applications
- 22) Emerging technologies



SCIENTIFIC PROGRAM-CONFERENCE FORMAT

The scientific program will consist of

- 9 invited **General Lectures** (45min), including the von Engel & Franklin Prize lecture, the Reactive Plasma Award lecture and Young Scientist Award lecture for the Commission on Plasma Physics (C16) for the year 2019.
- 48 invited **Topical Lectures** (30min)
- 84 **Oral Contributions** (15min)
- 4 **Poster Sessions** (2h)
- 2 **Arranged Sessions** (2h)

"Tentative Scientific Program at a Glance" is shown at

http://icpig2019.qe.eng.hokudai.ac.jp/scientific_program.html

INVITED SPEAKERS

ICPIG's von Engel & Franklin Prize 2018

- **Mark J. Kushner**, USA, "Interfacial Plasma Chemistry: When Surfaces and Plasmas Collide"

General Invited Speakers

- **Luis Alves**, Portugal, "Numerical simulation tools for plasma chemistry"
- **Jan Benedikt**, Germany, "Mass spectrometry and plasma chemistry of atmospheric pressure plasma jets"
- **Hisataka Hayashi**, Japan, "Plasma etching technologies for semiconductor device manufacturing and future prospects"
- **Francoise Massines**, France, "Atmospheric pressure plasmas for surface treatment"
- **Stefan Matejcek**, Slovak Republic, "Electron excitation and dissociative excitation processes to plasma relevant molecules"
- **Richard van de Sanden**, The Netherlands, "Recent trends in renewable energy driven chemistry for energy conversion and storage: plasma chemistry as the special case"

Topical Invited Speakers

- **Hiroshi Akatsuka**, Japan, "Optical emission spectroscopic analysis for diagnostics of electron density and temperature in non-equilibrium plasmas"



- **Nikolay Aleksandrov**, Russia, "High-voltage nanosecond discharges under non-uniform gas density conditions"
- **Peter Awakowicz**, Germany, "Plasma diagnostics for process plasmas"
- **Edward V. Barnat**, USA, "Ultrafast laser-collision-induced fluorescence in atmospheric pressure plasma"
- **Zdenek Bonaventura**, Czech Republic, "Streamer-induced kinetics of the ground and excited states in N_2-O_2 including highly excited and auto-ionizing states of atomic species"
- **Anne Bourdon**, France, "Modeling of low-temperature plasmas"
- **Ronny Brandenburg**, Germany, "Breakdown and plasma formation in reactive nonthermal plasmas at atmospheric pressure"
- **Nikolay Britun**, Belgium, "Applications and Diagnostics of HiPIMS plasmas"
- **Maria Castela**, Portugal, "Modelling non-thermal plasma-flow reactive systems"
- **Victor Contreras**, Mexico, "Chemical analysis of acoustically levitated water droplets by plasma spectroscopy"
- **James Dedrick**, UK, "Control of electron, ion and neutral heating in radio-frequency electrothermal microthrusters"
- **Zoltan Donko**, Hungary, "Kinetics of capacitively coupled discharges driven by tailored voltage waveforms"
- **Alexander Fedoseev**, Russia, "Non- local electron kinetics in a low-temperature low-pressure dc discharge complex plasma"
- **John Foster**, USA, "Liquid-related discharge phenomena"
- **David Go**, USA, "Solvated electrons at a plasma-liquid interface"
- **Benjamin Goldberg**, USA, "ps / fs electric field induced second harmonic generation for electric field measurements in plasmas"
- **Grzegorz Greczynski**, Sweden, "Time evolution of ion fluxes incident at the substrate plane during reactive high-power impulse magnetron sputtering"
- **Olivier Guaitella**, France, "Non Thermal Plasmas interacting with surfaces at elevated pressures"
- **Vasco Guerra**, Portugal, "Kinetic modeling of non equilibrium CO₂-containing plasmas"
- **Sung Ha Hong**, Australia, "Unravelling the mechanism of plasma interaction with biological material for application in medical and agricultural and food industries"
- **Bang-Dou Huang**, China, "The dynamics of the fast ionization wave discharge in different phases: from the breakdown to the afterglow"
- **Tsuyohito Ito**, Japan, "Plasma-assisted inkjet printing"
- **Mario Janda**, Slovakia, "Chemical kinetic modelling of NO_x formation in Transient Spark discharge"
- **Kazunori Koga**, Japan, "Selective nanoparticle deposition for controlling thin film properties"
- **Eva Kovacevic**, France, "Low temperature plasma synthesis of conductive polymers"
- **Laurence Kovacic**, France, "Lamb-shift and electric field measurements in plasmas"



- **Igal Kronhaus**, Israel, "Challenges in design of very low power plasma sources for space propulsion"
- **Kinga Kutasi**, Hungary, "The tunability of flowing afterglow systems based on surface-wave (surfatron) microwave discharges"
- **Sergey Leonov**, USA, "Plasma-assisted flow control, mixing, and combustion (with emphasis on supersonic flow control and supersonic combustion)"
- **Vida Mildaziene**, Lithuania, "Plant response to seed treatment with cold plasma"
- **Miran Mozetič**, Slovenia, "Plasma characterization using catalytic probes"
- **Tomoyuki Murakami**, Japan, "Modelling of complex chemical kinetics in atmospheric pressure plasmas"
- **Sander Nijdam**, The Netherlands, "Elementary processes in streamers"
- **Jun-Seok Oh**, Japan, "Dynamic analysis of reactive oxygen nitrogen species in plasma-activated liquid by UV absorption spectroscopy"
- **Emilie Pujo**, France, "MD simulations for a better understanding of plasma surface interactions"
- **Osamu Sakai**, Japan, "Plasma metamaterials: present and future"
- **Viktor Schneider**, Germany, "An optical trapping system for plasma diagnostics"
- **Giorgio Senesi**, Italy, "A Laser-Induced Breakdown Spectroscopy Perspective in Earth environments"
- **Nikola Skoro**, Serbia, "Plasma treatment of liquids and its application in agriculture"
- **Eduard Son**, Russia, "Low Temperature Plasma Instabilities and Turbulence"
- **Yuan-Hong Song**, China, "Simulation of dusty rf CCP plasma"
- **Mi-Young Song**, Korea, "Data evaluation on cross sections of electron-molecule collisions for process plasmas"
- **Gabi Daniel Stancu**, France, "Development of advanced spectroscopic diagnostics for reactive plasmas at atmospheric pressure"
- **Katharina Stapelmann**, USA, "Interactions of low temperature plasmas with biological systems for plasma sterilization"
- **Svetlana Starikovskaia**, France, "Pulsed nanosecond discharges and their applications"
- **Katsuyoshi Tsumori**, Japan, "Plasmas in Caesium-Seeded Negative Ion Sources"
- **Giichiro Uchida**, Japan, "Selective production of RONS in the plasma-treated water"
- **Dirk Uhrlandt**, Germany, "Numerical and experimental approaches to high-pressure arcs with non-equilibrium consideration"

Arranged Sessions

The scientific program includes on July 16 (Tuesday) the Arranged Sessions on "Novel aspects of classical gas discharge phenomena" and "Recent topics of dry processes used in semiconductor industries".

Each Arranged Session will be consisted of 4 invited speakers.



ICPIG's von Engel & Franklin Prize 2018

The von Engel and Franklin Prize is awarded biennially for outstanding research in the field of physics and technology of plasmas and ionized gases, as covered by ICPIG meetings. The prize is named in honour of two distinguished colleagues who have had a major role in ICPIG and its community since the original meeting in 1953.

The election procedure is conducted by the International Scientific Committee taking account of recommendations from the community based on long-standing and important contributions with remarkable scientific impact to the field.

The recipients of the ICPIG's von Engel & Franklin Prize 2018 is:

- **Mark J. Kushner**, USA

ICRP's Reactive Plasma Award

The Reactive Plasma Award (RPA), which was established in commemoration of the 10th ICRP, is the highest recognition awarded by the International Organizing Committee (IOC) of ICRP for outstanding achievements in the field of the fundamentals and applications of reactive plasmas. Nominations are requested from the attenders of past ICRPs. The IOC chair establishes the Selection Committee for RPA immediately after the nomination deadline passes. The winner of RPA will be selected by the middle of February, 2019.

IUPAP's Young Scientist Award for the Commission on Plasma Physics (C16) for the year 2019

IUPAP Young Scientist Award for the Commission on Plasma Physics is awarded to a young colleague who has up to 8 years of research experience following Ph.D. (excluding career interruptions), with exceptional achievements. It recognizes the excellence of a physicist working in any field of Plasma Physics. The selection is performed by the IUPAP Commission on Plasma Physics (Commission C16, <http://iupap.org/commissions/c16-plasma-physics/members/>) after an international call.

SATELLITE WORKSHOPS

In addition, five satellite workshops will be held on Sunday, the 14th and Saturday, the 20th.

http://icpig2019.qe.eng.hokudai.ac.jp/satellite_workshops.html

International workshop on nanoparticles and nanostructures synthesized by plasmas for energy applications

- Date: 14 July 2019
- Venue: Sapporo Education and Culture Hall, Sapporo, Hokkaido in Japan
- Program: [Here](#)

International Workshop on Diagnostics of Atmospheric-Pressure Plasmas

- Date: 14 July 2019



- Venue: Sapporo Education and Culture Hall, Sapporo, Hokkaido in Japan
- Program: [Here](#)

Atomic and molecular data for plasma applications

Challenges in simulation of low-temperature plasma and its applications

New trends of plasma processes for thin films and related materials

ABSTRACT SUBMISSION

Submission of contributions should follow the guidelines given at

<http://icpig2019.qe.eng.hokudai.ac.jp/submission.html>

During submission, the authors must choose the type of contribution between Poster / Oral / Either / Invited. They must also select the topic number relevant to the contribution. **Each contribution is up to two pages.** Details of editing are included in the [abstract template](#). Each registered participant can present a maximum of two contributions.

The deadline for submissions is February 25, 2019.

Deadlines will be respected, hence early submission is encouraged.

The accepted contributions will be published in the conference proceedings, on-line and on digital support distributed to all registered participants. In order to have a contribution published in the conference proceedings, **at least one of the authors must have paid the registration fee before May 31, 2019.** Please note that the early registration deadline is May 31, 2019.

CONFERENCE VENUE

XXXIV ICPiG / ICRP-10 will be held in the Sapporo Education and Culture Hall, located in central Sapporo, Hokkaido, Japan. Hokkaido, the northernmost island of Japan, has been a popular destination for Japanese tourists for decades, but it has become one of the most popular tourist destinations for foreign repeat visitors and first-time foreign visitors. Participants will enjoy the mild sunny climate (with low humidity), excellent foods, beer, whisky, and the beautiful nature of Hokkaido.

<http://icpig2019.qe.eng.hokudai.ac.jp/venue.html>

Sapporo Education and Culture Hall

Address: Kita 1-jo Nishi 13-chome, Chuo-ku, Sapporo,
Sapporo, Hokkaido 060-0001, Japan

Phone: 81-11-271-5821

[ACCESS to Sapporo Education and Culture Hall](#)

5-minute walk from Nishi Juitchome Station, the Subway
Tozai Line



(From the Subway Namboku Line “Sapporo Station”, transfer to Tozai line at “Odori Station”)

TRAVEL

Hokkaido is an island in the northernmost of Japan.

Given the travel time, it's best to come to Sapporo by a speedy plane. [New Chitose Airport](#), the gateway to Hokkaido, is linked with major cities across the country and boasts a wide range of facilities. Accessing Sapporo City from the airport is also easy with many options.



[From New Chitose Airport to Sapporo City](#)

By railway (JR)

JR is the fastest means of transportation to Sapporo City. The Rapid Airport to Sapporo runs approximately every 15 minutes (except early morning and late night) from after 8:00 to after 22:00, and takes passengers from the airport to Sapporo Station the quickest in just 37 minutes. If traveling prior to 8:00, you can take a local train bound for Sapporo. JR Hokkaido New Chitose Airport Station is directly connected with the first floor basement of the airport terminal building.

Time required Approximately 37 minutes

Charges One way ¥1,070
* Reserved seat +¥520 * Half price for children
* In addition to tickets purchased at ticket vending machines, you can also use smart cards such as “Kitaca,” “Suica,” and “PASMO.”

By bus (Airport Bus)

Hokkaido Chuo Bus and Hokuto Kotsu Bus operate services from the airport to Sapporo City departing every 10–15 minutes. The bus takes approximately 70 minutes to arrive in central Sapporo. There are bus terminals at two locations on the first floor of the domestic terminal and at one location on the first floor of the international terminal. Tickets can be purchased at the bus counter or from ticket vending machines and used for buses from both companies. There are also special deals such as round trip tickets and coupon tickets.

Time required Approximately 70 minutes

Charges One way ¥1,030
* In addition to tickets purchased at ticket vending machines, you can also use smart cards such as “Kitaca,” “Suica,” and “PASMO.”



VISA

Japan has visa exemption agreements with 61 countries and regions (as of April, 2012). Citizens of these countries who plan to stay in Japan no longer than the period specified in these agreements do not require a visa. Foreign participants should contact the Consular Section of [the Embassy or Consulate General of Japan](#) nearest you as soon as possible, to determine their particular visa requirements. Those requiring visas must initiate the application process well in advance of their departure date. More detailed information how to obtain a Japanese visa is shown at the website below.

“Ministry of Foreign Affairs of Japan” http://www.mofa.go.jp/j_info/visit/visa/

Inquiry for the visa application (invitation letter, etc.), please contact to Conference Secretariat
icpig2019@qe.eng.hokudai.ac.jp

ACCOMMODATION

A number of rooms have been reserved, in various hotels near the venue, for the accommodation of the participants and their accompanying persons.

Detailed information on the hotels, including their location, can be found on the XXXIV ICPIG & ICRP-10 website at <http://icpig2019.qe.eng.hokudai.ac.jp/accommodation.html>

Please note that Sapporo, Hokkaido is a tourist destination and July is high season. Attendants to XXXIV ICPIG & ICRP-10 are strongly advised to book in advance.

CONFERENCE DINNER – July 18 (Thursday) at [Sapporo Beer Garden](#)

The official conference dinner will be held at Sapporo Beer Garden. A “Genghis Khan” is made of tender and plain fresh lamb and plenty of vegetables on a special metal skillet. Draft beer is a perfect match with the local cuisine representing Hokkaido. At the Sapporo Beer Garden, aiming at offering you delicious tastes that cannot be experienced anywhere else, freshly brewed beer delivered directly from factories is carefully poured by skilled professionals. Please get a taste of one glass of delicious beer filled with the heart and soul of craftsmen who accumulated experience through daily training.

*Please apply for Conference dinner at Online Registration.

*Vegetarian, Halal available

Date: Thursday, 18 July 2019

Time: 19.00-21.00

Venue: [Sapporo Beer Garden](#) (We will take you to the restaurant from the venue by bus.)

Cost: JPY 5,000





CONFERENCE EXCURSION – July 17 (Wednesday)

In Wednesday afternoon, all participants and their accompanying persons are kindly invited to one of the three excursions, included in the registration fee (English language guided tours; duration 4-5 h), each starting off at the conference venue at 14:00 and ending at Sapporo Station. There is a choice between the following excursions (pre-registration required by marking your choice on the conference registration page; assignment will be based on first-come-first-served basis) We will offer the dinner option after CONFERENCE EXCURSION (additional charge JPY5,000). It is also pre-registration required by marking your choice on the conference registration page. Restaurants may be different depending on each excursion.

TOUR 1 SAPPORO HALF DAY TOUR

Itinerary: 4.5 h (journey time)

Venue - Hokkaido Shrine - Salmon Museum - Chocolate Factory - look at Clock Tower (Tokeidai) from the window - Sapporo Station

Destinations:

Hokkaido Shrine

It is a shrine with the highest status rank in Hokkaido. During New Year's period, over 800,000 people come to the Hokkaido Shrine for Hatsumoude (the first temple visit of the New Year). Please feel Sapporo history and real Japanese culture with a guide. Let's try an oracle (a fortune slip)!



Salmon Museum

This science museum aims to communicate the importance of the fact that salmon returned to Toyohira River after once disappearing, and offers visitors a chance to observe salmon.



Shiroy Koibito Park (Ishiya Chocolate Factory)

This is a unique chocolate factory and theme park for sweets lovers! This is a fantastic space based on the ideals of deliciousness, fun and stories of sweets from a bygone era. The things visitors see, taste and experience here will make for truly “sweet” memories! There don’t miss seeing the Mechanical (marionette) Clock Tower in the garden.



Clock Tower (Tokeidai) from the window

The Clock Tower was designated as a National Important Cultural Property in 1970 and is now a museum that is also used for various cultural activities. The Clock Tower continues to serve as a historical landmark, telling stories of early days in Sapporo.

TOUR 2 OTARU HALF DAY TOUR

Itinerary: 4.5 h (journey time)

Venue - Otaru Kihinkan - Walk freely along the Canal at Otaru Canal Terminal - Sapporo Station

Destinations:

Otaru Kihinkan (the Old Aoyama Villa)

The Old Aoyama Villa is a symbol of herring fishing, born out of the dream of a 17-year-old young woman, Masae Aoyama. Imagine how many people enjoyed grand parties nightly in this villa during its prosperous days!



The Canal at Otaru Canal Terminal

Participants can walk freely through the Otaru Canal area, a famous sightseeing spot representative of Otaru City. Otaru Canal was dug and built in the Taisho Era (1912-1926) and is about 1,140 m long and 40 m wide.



TOUR 3 YOICHI DISTILLERY | NIKKA WHISKY TOUR

Itinerary: 4.5 h (journey time)

Venue - YOICHI Distillery (guided tour, tasting services and shopping) - Sapporo Station

YOICHI Distillery (NIKKA WHISKY)

YOICHI Distillery—is at Lat.43 10'N.Lon.14045'E, or about the same Latitude as the middle of New York State, Toronto Canada, Vladivostok Russia.

—rests about 50 km west of Sapporo City in southern Hokkaido, which is the northernmost of Japan's four principal islands, and was one of the last Japanese frontiers to be developed.

—has three sides surrounded by mountains, and one side on the coast (Sea of Japan).

—is blessed with the things that really matter to great whisky.



REGISTRATION FEE

Registration can be made following the information on the XXXIV ICPIG & ICRP-10 website at <http://icpig2019.qe.eng.hokudai.ac.jp/fees.html>

The conference dinner and excursion can be reserved using the same form. Note that the conference dinner are not included in the registration fee.

The deadline for Early-bird registration is 23:59 of May 31, 2019, Japan Standard Time (GMT+9).

Registration Fees (JPY)

	Early Registration Before May 31, 2019	Late Registration On or after June 1, 2019
Regular participants	50,000 JPY	60,000 JPY
Students	25,000 JPY	30,000 JPY
Accompanying persons	10,000 JPY	10,000 JPY
Banquet (on Wednesday, July 17, 2019)	5,000 JPY	5,000 JPY



The registration fee for regular participants and for students brings a complete package including a digital copy of the conference proceedings, conference material, coffee breaks, invitation for the welcome reception and the excursion, and a complete tourist guide.

The fee for accompanying persons includes the participation in the welcome reception and the excursion.

Cancellation Policy

Cancellation received

- On or before May 31, 2019 80% refund
- After June 1, 2018 No refund

FINANCIAL SUPPORT

A limited budget is available from the Local Organizing Committee (LOC) to partially cover, with a fixed amount to determine, the expenses (conference fee and/or accommodation) of the presenting authors from Developing Countries and the young researchers who are costed high travel expenses from such as Europe and the United States that most need financial support for attending XXXIV ICPIG & ICRP-10.

This financial support is granted through sponsorship of the International Union of Pure and Applied Physics (IUPAP).



Details about financial support from the LOC are given on the conference website at http://icpig2019.qe.eng.hokudai.ac.jp/financial_support.html

The deadline for applications to financial support from the LOC is February 25, 2019.

"IUPAP Policies on Conferences"

(<http://iupap.org/sponsored-conferences/conference-policies/>)



ICPIG INTERNATIONAL SCIENTIFIC COMMITTEE

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Naoki Shirai, Hokkaido University
Hirotake Sugawara, Hokkaido University
Giichiro Uchida, Osaka University



IMPORTANT DATES

Deadline for abstract submission: February 25, 2019

Deadline for application to financial support from LOC: February 25, 2019

Notification of acceptance: Mid-April, 2019

Notification of presentation style (oral/poster): Mid-May, 2019

Early registration: May 31, 2019

Final announcement: End of June 2019

CONTACT

Local Organizing Committee

Koichi Sasaki (Chair)

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