On the Organization of The 73rd Annual Meeting of The Japanese Society of Microscopy

Nobuo Tanaka, President of The Japanese Society of Microscopy
Kazutoshi Gohara, Chair of the 73rd Annual Meeting

On this occasion, it has been decided that the 73rd Annual Meeting of The Japanese Society of Microscopy will be held this coming May 30 (Tuesday) to June 1 (Thursday), 2017 at the Sapporo Convention Center. We would be very honored to welcome all members to Sapporo in early summer. We request the broad participation of members from both Japan and abroad, as well as the general public.

Microscopy has long been used as a powerful tool to support science and technology. Advances in microscopic technology have brought about innovative developments in material systems and the fields of biology and medicine, and opened new frontiers in a number of different areas. For example, optical microscopy has become a technology honored with the Nobel Prize as a result of mastering super-resolution, and electron microscopy has produced results as an advanced technology for aberration-corrected electron microscopy by precisely and accurately exploring the problem of aberration from the perspective of electron optics. Research and development for these technologies have been steadily expanded for all targeted substance groups in material and biological and medical systems, and major breakthroughs are expected in the future with support to a variety of different fields and the integration of science and technology in different areas. Microscopy is the foundation supporting a vast area, ranging from the very basic to actual application. We feel strongly that new scientific discoveries are on the horizon as the field continues to evolve with the collection of the best in science and technology and expansion of the range of applications.

With this background, the theme of the next Annual Meeting has been set as “Reevaluating the Integration of Microscopy Research.” We would like to lead The Japanese Society of Microscopy to further development using this Annual Meeting as a forum for presentations and lively discussions on the latest and most advanced research results. We plan to invite and hear lectures from prominent researchers in the field of microscopy from overseas at this Annual Meeting. A public lecture will also be held on June 3rd (Saturday). In this lecture, we plan to organize interactive workshops where attendees can actually touch and get hands-on experience with microscopes. During the meeting period, we plan to have a social gathering at the Genghis Khan beer garden to promote friendship among the attendees.

The Executive Committee and all concerned members of the Society sincerely welcome a wide range of people, including researchers, technical experts, students, and those in related academic fields and industries also from Japan and abroad that are involved in microscopy to Sapporo, where the lilacs will be in full bloom marking the start of the early summer.
2 Meeting Period & Venue

【Annual Meeting】
Dates: May 30 (Tue) - June 1 (Thu), 2016
Venue: Sapporo Convention Center
1-1-1 Higashi-Sapporo 6-jo, Shiroishi-ku, Sapporo, 003-0006, Japan
HP: http://www.c-linkage.co.jp/jsm73/

【Public Lecture and Workshop】 Free entry
1. Public Lecture
Date & Time: June 3 (Sat), 2017 13:00-16:00 (Tentative)
Venue: Frontier Research in Applied Sciences Building, School of Engineering, Hokkaido University
Theme: TBD
Lecturer: TBD

2. Microscope Interactive Workshop
Date & Time: June 3 (Sat), 2017 13:00-16:00 (Tentative)
Venue: Frontier Research in Applied Sciences Building, School of Engineering, Hokkaido University
Observe familiar substances using electron microscopes and optical microscopes.
Details on registration will be announced on the website for the Annual Meeting (http://www.c-linkage.co.jp/jsm73/).

【Social Event】 Date & Time: May 31 (Wed), 2017
Venue: Kirin Beer Garden Hokkaido

3 Schedule (Tentative)

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<td>9:00</td>
<td>Annual Meeting</td>
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<td>Luncheon Seminar</td>
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<td>11:00</td>
<td>Poster and Photography Competition</td>
<td>General Assembly</td>
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<td>12:00</td>
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<td>13:00</td>
<td>Annual Meeting</td>
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4 Outline of Annual Meeting

The Annual Meeting includes special sessions, general lecture sessions, and symposium sessions. This year, we place more emphasis on general lecture sessions than ever before. Specified lectures will be selected by the Program Committee from applications for general lectures with an emphasis on contents. We are looking forward to your active submission of applications for general lectures. In addition to these lectures, this year’s Annual Meeting will also feature tutorial sessions, sponsored workshops, and luncheon seminars.

Special Sessions (SS)

SS-1 Lectures by Seto Award Winners
Lectures will be given by FY 2017 Seto Award winners. Details will be posted after the winners are announced.

[Presentations] Award lectures

General Lecture Sessions

We are calling for applications for lectures in the following categories. When submitting an application, please choose one category (I. Microscopic technology, B. Medical and biological sciences, M. Material science) and up to three session items. We will meet your requests as much as possible. However, the final decision lies with the Program Committee.

This year’s Annual Meeting also features symposiums and sponsored workshops that accept general lectures. Please submit an application for a general lecture if there are relevant sessions. The organizers and Program Committee will determine if a submission is accepted for sessions (In some cases, this may be organized as a session).

I. Microscopic techniques (instruments & methods)

1. TEM/STEM
2. SEM
3. Chemical state analysis and analytical techniques
4. Phase-related techniques
5. Analytical electron microscopy (EDS/EELS)
6. Electron tomography and 3D analysis
7. The others
B. Medical & biological sciences

1. Bio-imaging
2. Biological structure analysis
3. 3D reconstruction (3D-SEM, tomography, high-voltage EM)
4. Preparation & observation of biological specimens
5. Cells, tissues & organs
6. Cell organelles & cytoskeleton
7. Plant
8. Microorganisms & viruses
9. Stem cells
10. Bio-materials
11. The others

M. Materials science

1. Metals
2. Semiconductors
3. Ceramics
4. Magnetic and dielectric materials
5. Nano-materials
6. Surfaces & interfaces
7. In-situ observations and environmental electron microscopy
8. The others

Symposium Sessions (S)

S-1
【Theme】
Fusion of SEM related technology for realizing solutions of new generation
【Organizers】
Hirohide Otobe (Asahi Kasei Corporation)
Daisuke Koga (Asahikawa Medical University)
【Outline of session】

The scanning electron microscope (SEM) can obtain information on the shape and composition of the sample surface from the low magnification to high magnification ranges and this feature makes it possible to analyze the micro area of a sample easily. There are certain needs such as failure analysis of the micro area of highly integrated devices in the semiconductor field and
nowadays FIB-SEM, the system developed by the fusion of FIB (the focused ion beam) and SEM technologies, is used in various analysis areas. In this way, the SEM technology promotes the integration (systematization) of varied analytical instruments, sample preprocessing equipments and image analysis in order to meet diversified analytical needs, contributes to the research & development and failure analysis in wide-range fields and is expected to evolve in the future.

Meanwhile, the Scanning Electron Microscopy Subcommittee tries to propose the technological integration of biological and material systems with the aim of improving the analysis technology for SEM users. In addition, it is becoming possible to predict the structure at the material development stage by quantifying the observed image information using SEM.

Because of this background, we will organize a symposium titled "Fusion of SEM related technologies for realizing solutions of new generation", focusing on the fusion of various equipments, the sample-preparation technology, different field technologies, et alia.

【Speakers (tentative)】 (Tentative titles)
Biological CLEM (Correlative light and electron microscopy) Kiminori Toyooka RIKEN
Soft Material CL (Cathodoluminescence) Haruko Hirose TEIJIN

【Presentations】 Invited lectures, specified lectures, general lectures

S-2

[Theme]
Fusion of industry and academia through advanced characterization shared-use platform

【Organizers】
Daisuke Fujita (National Institute for Materials Science)
Masaki Takeguchi (National Institute for Materials Science)

【Outline of session】
The "Nanotechnology Platform Program" is a ten-year commissioned project of Ministry of Education, Culture, Sports, Science and Technology (MEXT). Being part of this project, the "Advanced Characterization Nanotechnology Platform (ACNP)" provides an optimum combination of advanced characterization equipment and research support in order to produce high-quality research results and solve industrial problems. The platform comprises 11 institutes and has been used by approximately one thousand researchers. It promotes collaboration between industry and academia and development of measurement and characterization technologies. In this symposium, some ACNP achievements will be presented by its users and technical staff, and the industry-driven future characterization technologies will be discussed.

【Speakers (tentative) (Honorifics omitted)】 (Tentative titles)
TBD

【Presentations】Specified lectures, general lectures
S-3
[Theme]
Three-dimensional bio-imaging and analysis
[Organizers]
Keisuke Ohta (Kurume Univ)
Nobuhiko Ohno (NIPS)
[Outline of session]
This symposium focused on analysis of 3D data set obtained by using various microscopic techniques. As these recent 3D imaging methods which include X-ray microscopy, light microscopy such as light sheet microscopy and serial slice scanning electron microscopy usually provide huge and complicated volume data, it is relatively difficult to make it analyze by standard tactics. So, we would like to discuss and share the latest trial of the 3D imaging and its quantitative analysis.

【Speakers (tentative)】(Tentative titles)
Hiroshi Kamioka (Okayama Univ.)
Kazunobu Sawamoto (Nagoya City Univ.)
Satoru Yamaguchi (Osaka Univ.)
Hajime Matsumoto (MCHC R&D Synergy center)
Keisuke Ohta (Kurume Univ.)

【Presentations】Specified lectures, general lectures

S-4
[Theme]
Basics and recent advances in Tokuyasu method
[Organizers]
Masato Koike (Juntendo University)
Daisuke Koga (Asahikawa Medical University)
[Outline of session]
Immunogold labeling of cryosections pioneered by Tokuyasu over about 40 years ago has been routinely used as an important and standard technique in the field of cell biology. Compared to on-section labeling of methacrylate resin sections, another common method for immunoelectron microscopy, advantages of Tokuyasu method are good preservation of cell ultrastructure with a beautiful delineation of membranes and of the antigens and its rapid procedure. Besides these well-known advantages, it should be noted that the specimen for Tokuyasu method preserves fluorescence of GFP and can be combined with other EM techniques. Several technical developments during the last 30 years, excellent cryo-ultramicrotomes and diamond knives have made this technique much easier to perform. In this session, we will focus on the recently developed procedure combining Tokuyasu method with light- and electron microscopy (CLEM) or
the osmium maceration method. Furthermore, we will introduce novel improvement on the flat-
embedding method to prepare ultrathin cryosections from cell monolayer. Finally, we will look
back on the critical steps to obtain good ultrathin cryosections.

**Speakers (tentative) (Honorifics omitted)** (Tentative titles)
Toshihiro Takizawa (Nippon Medical School)
Daisuke Koga (Asahikawa Medical University)
Satoshi Kusumi (Kagoshima University)
Masato Koike (Juntendo University)

**Presentations** Invited lectures, specified lectures, general lectures

S-5

**[Theme]**
Modern microscopy and frontiers in plant science

**[Organizers]**
Yoshinobu Mineyuki (University of Hyogo)
Masako Osumi (Integrated Imaging Research Support)

**[Outline of session]**
This symposium, organized by the Non-Profit Organization Integrated Imaging Research
Support (IIRS), takes place annually with a different theme. This year’s theme is Modern
Microscopy and Plant Sciences, wherein five speakers will be offering their overviews of how
the latest imaging technologies have contributed to new insights in plant science. The first
three topics of discussion will involve the cellular level. Dr. C. Nagasato will talk about cell plate
formation in brown algae based on observations using 3D electron microscopy and the rapid
freezing method. Dr. T. Kubo will explain the molecular mechanism of the movement of flagella in
green algae by using cryo-electron tomography. These two speakers will be discussing organisms
that have centrioles similar to that in animals. Plants, however, gradually lost their flagellum and
centrioles as they evolved on land, and Dr. Murata, the third speaker, will present the microtubule
dynamics in acentriolar cell division in flowering plants by using the latest live imaging method.
The remaining two topics of discussion will involve the tissue level. Dr. S. Nagahara will present
the molecular mechanisms of plant reproductive processes revealed by cell manipulation and live
imaging methods developed by her group. Finally, Dr. Y. Mineyuki will present his analysis of the
air spaces that are involved in supplying oxygen to each cell during seed germination, by using
micro-CT and scanning electron microscopy.

**Speakers (tentative)** (Tentative titles)
Chikako Nagasato (Field Science Center for Northern Biosphere, Hokkaido University)
"Ultrastructural analysis of cytokinesis in brown algae"
Tomohiro Kubo (University of Yamanashi Faculty of Medicine)
"Structural biology of Chlamydomonas flagella"
Takashi Murata1,2 (1. Division of Evolutionary Biology, National Institute for Basic Biology 2. Department of Basic Biology, School of Life Science, Graduate University for Advanced Studies (SOKENDAI))

"Multipoint scanning 2-photon confocal microscopy and its application for analyses of mitotic spindle formation"

Shiori Nagahara1, Daisuke Kurihara2, Yoko Mizuta3, Tetsuya Higashiyama1,2 (1. Institute of Transformative Bio-Molecules (WPI-ITbM), Nagoya University, 2. Graduate School of Science, Nagoya University, 3. Japan Science and Technology Agency, PRESTO)

"Live imaging of cell dynamics in plant reproductive processes"

Yoshinobu Mineyuki (Graduate School of Life Science, University of Hyogo)

"New insights on plant aerenchyma development revealed by micro-CT and SEM."

【Presentations】Invited lectures

S-6
[Theme]
Nano-Characterization conjunction with Scanning Probe Technique

【Organizers】
Hiroshi Itoh (AIST)
Ryohei Kokawa (Shimadzu)

【Outline of session】

Scanning probe microscopy (SPM) is important technology in the field of nanotechnology, such as characterization of nano-material and devices. Furthermore, SPM technology is one of ultimate methods to observe local physical properties of the nano-objects. Optical methods is also combined with SPM to extend microscale to nanoscale resolution. For example, combining commercially available laser confocal microscope with an SPM is really a powerful tool to measure surface roughness in the range from 10mm to 1nm. The reliability and identity of nominal value and local value which is measure with SPM probe will be discussed at the symposium.

【Speakers (tentative) (Honorifics omitted)】 (Tentative titles)
TBD

【Presentations】Invited lectures, specified lectures, general lectures

S-7
[Theme]
Biological architecture elucidated by advanced electron microscopy : Super resolution and multidisciplinary informatics

【Organizers】
Kenji Iwasaki (Osaka University)
Nobuhiro Morone (Medical Research Council)
Takuo Yasunaga (Kyushu Institute of Technology)

【Outline of session】
Dramatic progress in biological electron microscopy succeeds in visualizing protein-aggregates, cellular tissue, and organs at super resolution as never before. On the other hand, correlation technique between light (or fluorescent) and electron microscopy as multidisciplinary with other informatics can provide a brand-new tool to us at present. In this symposium, these recent progress toward cellular medicine will be explored for beautiful future microscopy.

【Speakers (tentative)】 (Tentative titles)
TBD

【Presentations】Invited lectures, specified lectures, general lectures

S-8

【Theme】
Fusion of microscopy and ion analysis

【Organizers】
Mitsutoshi Setou (Hamatsu University School of Medicine)
Hisayoshi Yurimoto (Hokkaido University)

【Outline of session】
Up to this century, microscopy is expanding with novel ion techniques of irradiation and/or detection. Examples include imaging mass spectrometry and isotope microscopy by which we can perform a precise compositional analysis corresponding to sample morphology. Scanning ion microscopy enables us to perform a microfabrication of the surface structure as well as an observation at a large depth of focus or of insulator samples. These new microscopies give us new findings and results in a wide range of research areas including medical and biological science, space science, nanotechnology and material science. This symposium entitled “Fusion of microscopy and ion analysis” will provide the cutting edge knowledge on novel technologies and their applications presented by five speakers.

【Speakers (tentative)】 (Tentative titles)
Mitsutoshi Setou (International Mass Imaging Center, Hamamatsu University School of Medicine)
“Imaging mass spectrometry (tentative)”

Hisayoshi Yurimoto (Hokkaido University, JAXA)
Isotope Microscope (tentative)

Shinichi Ogawa (National Institute of Advanced Industrial Science and Technology)
“Helium ion microscopy (tentative)”

Takafumi Hirata (Geochemical Research Center, The University of Tokyo)
"Rapid and sensitive elemental imaging for trace-elements in solid materials using laser ablation-ICP-mass spectrometry"

Shiro Takei (Hamamatsu University School of Medicine)
"Secondary ion mass spectrometry (tentative)
【Presentations】Invited lectures, special lectures, general lectures"

S-9
【Theme】
“Aberration-corrected electron microscopy — present status and future perspectives” (English Session)
【Organizers】
Nobuo Tanaka (Nagoya University)
Yuichi Ikuhara (University of Tokyo)
Eiji Abe (University of Tokyo)
【Outline of session】
Imaging power of electron microscopes has been significantly improved by the revolutionary innovation of the aberration-correction electron optics, which are capable for both TEM and STEM. In this symposium, we focus on the significant topics provided by the-state-of-the-art aberration-corrected TEM/STEM analysis, and discuss the future directions for further development of the microscope fundamentals and techniques.
【Speakers (tentative)】
Prof. Harold Rose (Keynote Lecture)
【Presentations】We accept contributed talks. Abstracts must be submitted in English.

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<tr>
<td>【Theme】</td>
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<tr>
<td>Basic technology and tips of TEM / SEM sample preparation method in medical and biological materials</td>
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<td>【Organizers】</td>
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<td>Osamu Katsumata (Osamu Katsumata, Kitasato Univ), Yoshihiro Akimoto (Yoshihiro Akimoto, Kyorin Univ)</td>
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<td>【Outline of session】</td>
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| For beginners working in the fields of biomedical electron microscopy, introduction of fundamental technologies will be presented, including, essential preparation methods for TEM and SEM, immunocytochemistry, immunoelectron microscopy and the state-of-art 3-dimensional
reconstitution by SEM serial surface examination technique applications for various biomedical samples. The contents of this session provide the basic informations for sample preparation on biomedical electron microscopy toward further skill improvements of technicians and investigators.

**Speakers (tentative)**

Chairs: Osamu Katsumata (Kitasato Univ), Yoshihiro Akimoto (Kyorin Univ)
Toshimasa Tachibana (Jikei Univ, Fixation to sectioning & Observation)
Yoshihiro Akimoto (Kyorin Univ, Basic technology of immunocytochemistry)
Daisuke Kouga (Asahikawa Med Univ, Basic technology of SEM samples)
Keisuke Ohta (Kurume Univ, Basic technology of FIB samples)
Michio Kawasaki (Hirosaki univ, Basic technology of Plant samples)
Masashi Yamaguchi (Chiba Univ, Basic technology of microbiological samples)
Takamichi Kamigaki (Megu Milk, Basic technology of Biomaterial samples)

**Presentations** Specified lectures

T-2

**Theme**

Electron optical simulator and its applications

**Organizers**

Coordinator, Electronic Optical Design Technology Research Group

**Outline of session**

Except for some topics, such as aberration correction, electron optics is no longer a major theme in academic activities, but for researchers and engineers involved in electron beam application equipment "paraxial orbital theory" and "magnetic / electrostatic lens design methodology" are still essential engineering technologies. In order to provide the opportunity for young engineers to efficiently learn the skill of highly advanced electron optics design technology by many years of pioneering efforts, we have started "Electron Optics Study Group" in H27. From H27 to H28, we held research workshops of basic research themes such as electron guns and axisymmetric lenses.

In this tutorial, Dr. Eric Munro, the developer of electronic optics design simulator, which is most practically used in the world, will introduce basics and the latest technologies. Then some typical design examples such as spectrometer will be demonstrated.

**Speakers (tentative)**

(1) Dr. Eric Munro (MEBS Ltd.) "Recent progress of MEBS software (Tentative title)"
(2) TBD: Applications with MEBS(Such as spectrometer, monochrometor and EELS)
(3) TBD: Introduction of the other simulators and applications

**Presentations** Invited lectures, specified lectures, general lectures
Sponsored Workshops (OT)

We are accepting contributions for Sponsored Workshops. Please contact the Secretariat of The 73rd Annual Meeting of the Japanese Society of Microscopy (E-mail: jsm73@c-linkage.co.jp), if interested.

OT-1
Prize Winner Lecture Meeting of the Kazato Research Foundation

Winners of the Kazato Prize, one of the grant programs of the Kazato Research Foundation, will deliver lectures at this Lecture Meeting. The Kazato Prize is awarded to researchers aged 45 and under who have produced excellent scientific achievements in the field of research and development on electron microscopes and related instruments or research using these instruments in the fields of medical science, biology, physics, chemistry, materials science, nanotechnology, and other related areas. The Kazato Research Foundation has held this lecture meeting since fiscal 2007 in order to widely publicize award activities. Winners of the Kazato Prize deliver lectures in an easy-to-understand format at this meeting. In addition, as special lectures, the Ministry of Education, Culture, Sports, Science and Technology will deliver a lecture on the scientific and technological policies of the government, and prominent researchers will deliver simple and straightforward lectures on specialized research. We hope to see many people, including members and the general public, in attendance.

【Speakers (tentative)】
Special lectures (2), The 10th (2016) Kazato Prize winners (2) (Speakers and topics will be decided in February 2017.)

Luncheon Seminar (L)

Luncheon seminars will be organized on May 30 (Tue) and June 1 (Thu) from 12:00. Companies interested in hosting a luncheon seminar may contact the Secretariat (jsm73@c-linkage.co.jp).
5 Application for Annual Meeting

Please send applications for lectures after registering for the Annual Meeting at the website of The 73rd Annual Meeting of The Japanese Society of Microscopy (http://www.c-linkage.co.jp/jsm73/).
※Abstracts must be uploaded in PDF format.
Before submitting an application for a lecture, prepare a PDF file using the outline template.

(1) Application qualifications and number of applications
Both members and non-members of the Japanese Society of Microscopy may submit multiple applications for lectures. We are also accepting applications for general lectures at symposiums (For details, please refer to the section on symposium sessions on p. 4). We look forward to receiving a number of applications. We accept applications for membership in the Japanese Society of Microscopy any time. Non-members should refer to the website of the Japanese Society of Microscopy for information (http://www.microscopy.or.jp/).

(2) Application period
January 11 (Wed) to 12:00 on February 15 (Wed), 2017

(3) Presentation format
General lectures may be oral presentations or poster presentations. Symposums are oral presentations.
Oral presentations:
Each venue will be equipped with projectors, screens, monitors, and other related equipment.
Poster presentations:
Poster board size: (L) 210 cm × (W) 90 cm
Displayable size: (L) 170 cm × (W) 90 cm

(4) Acceptance of lecture application
Titles of accepted lectures will be posted on our website after a decision has been made by the Program Committee.

(5) Decisions on presentation sessions and presentation formats
We will meet applicants’ requests for presentation sessions (general lectures/symposiums) and presentation formats (oral/poster) as much as possible. Please note that we may not be able to comply with all requests.

(6) Presentation times
1. Oral presentations at general lecture: 15 minutes (includes discussion)
2. Poster presentations at general lecture: Posted throughout the exhibition period. Questions and discussion times will be announced at a later date.
3. Oral presentations at symposiums: Determined by the organizers of relevant sessions.

(7) Best Poster Awards (for members of The Japanese Society for Microscopy)
The winners of the Best Poster Awards will be selected by the Selection Committee during the exhibition period. Winners will be presented with Best Poster Awards at the social event.
Submission of Abstracts

Abstracts must be submitted when applying for lectures. Please apply for lectures and submit abstracts using the Information for Presenters and Call for Abstracts pages on the website of The 73rd Annual Meeting of the Japanese Society of Microscopy (http://www.c-linkage.co.jp/jsm73/). (You may make modifications during the presentation application period.) Please download the outline template on this page and upload the template for oral or poster presentations in PDF format. The size of the template is 160 × 120 ㎜ (about 1/2 of an A4 sheet of paper). Please include your presentation, including diagrams, in this area. Titles and authors should be written in both Japanese and English. Figure captions should be written in English. Please refer to the template for details on fonts and diagram resolution, etc. ※Please make sure that there are no discrepancies between the registered contents and the contents of the uploaded file.

Application for Photography Competition

You are encouraged to submit entries for the Photography Competition. Applications will be accepted only online. Please note that prize-winning entries may be used by The Japanese Society of Microscopy for non-commercial purposes.

(1) Target photos
We are calling for academically and technically competent, artistic, and unique microphotographs, including photos using all forms of microscopy (a combination of a variety of techniques is also acceptable). Photos that have won awards in other photographic competitions or from other academic societies, and photos published in academic journals are not eligible.

(2) Qualifications for participation
Registered participants of The 73rd Annual Meeting of the Japanese Society of Microscopy (membership is not required).

(3) Application period
January 11 (Wed) to 12:00, February 15 (Wed), 2017

(4) Presentation format
Photos will be listed in the presentation proceedings. Photos will also be exhibited at the venue during the Annual Meeting.

(5) Participation awards
Participation awards will be presented for all photos.
(6) **Selection of excellent photos**

Winners will be selected by participants based on a broad set of criteria, such as quality, academic and technical value of the contents, artistic character, and other comprehensive qualities. Awards for excellent photographs of the 73rd Annual Meeting will be presented at the social gathering. Names of the winners will appear on JSM’s website.

(7) **Application method**

Please submit photos online through the application page of the Photography Competition on the website of The 73rd Annual Meeting of the Japanese Society of Microscopy.

- Enter the title, names and affiliations of photographers, subjects photographed and shooting conditions for each photo (work) submitted. Please also include a 150-character description in Japanese (300-word description in English) of the photo’s academic, technical, and artistic value.
  ※Photos that do not include shooting conditions, etc. may not be accepted.
- The maximum size of each image is 600 pixels vertically x 500 pixels horizontally. Please submit photographs online in the same format as they will be exhibited at the venue.
  ※If a discrepancy is found between submitted and exhibited photographs, applicants may be disqualified.
- Please ensure that the title, name and affiliation of the photographer matches the data submitted online.
- Color charts and photos are accepted.
- You may submit multiple photos. Please make a separate entry for each application.

(8) **Character limit**

Title: Within 40 characters (two-byte, Japanese), within 80 words (one-byte, English)

Name of photographer: Within 15 people

Affiliation: Within 15 institutes

Caption: Within 150 characters (two-byte, Japanese), within 300 words (one-byte, English)

Subject, conditions: Within 50 characters (two-byte, Japanese), within 100 words (one-byte, English)
Please register via the Registration page on the website of The 73rd Annual Meeting of the Japanese Society of Microscopy (http://www.c-linkage.co.jp/jsm73/).

【Payment Method】If you have selected credit card payment at the time of application, the payment can be settled automatically once your registration is completed.
※Please note that if you select credit card payment, data cannot be changed once it has been entered.
※If payment is not made by the deadline (April 14 (Fri), 2017), preliminary registration will be cancelled. Registration for the Annual Meeting and social event will be accepted on-site at the meeting venue.
※Refunds will not be offered after payment has been completed.

(1) Registration fee for Annual Meeting （※Does not include fee for proceedings）

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<th>Early registration</th>
<th>On-site Registration</th>
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<td>Members</td>
<td>¥10,000&lt;sup&gt;1)&lt;/sup&gt;</td>
<td>¥12,000&lt;sup&gt;1)&lt;/sup&gt;</td>
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<td>Collaborative society members:</td>
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<td>The Biophysical Society of Japan</td>
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<td>Supporting society members (including those under negotiations)</td>
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<tr>
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<td>¥3,000&lt;sup&gt;2)&lt;/sup&gt;</td>
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<sup>1)</sup> Registration fees for members of JSM is tax deductible.

<sup>2)</sup> Students must present student ID cards at reception (copies are accepted).
(2) Social event fee

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\(^1\) Students must present student ID cards at reception (copies are accepted).

(3) Printed proceedings

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※Printed proceedings will be handed out at the venue of the Annual Meeting.

9 For inquiries

Secretariat of the 73rd Annual Meeting of The Japanese Society of Microscopy
c/o Convention Linkage, Inc.
Hokkaido Bldg., 4-1 Kita2-Jo-Nishi, Chuo-ku, Sapporo 060-0002, Japan
Tel: +81-11-272-2151 Fax: +81-11-272-2152
E-mail: jsm73@c-linkage.co.jp
Sapporo Convention Center
(1-1-1 Higashi-Sapporo 6-jo, Shiroishi-ku, Sapporo, 003-0006, Japan, TEL: 011-817-1010)
【URL】http://www.sora-scc.jp/
【Access】
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Kazutoshi Gohara, Chair of the 73rd Annual Meeting

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≪Microscopic techniques and Materials≫
Seiichiro Watanabe (Hokkaido University)
Norihito Sakaguchi (Hokkaido University)
Masashi Arita (Hokkaido University)

≪Medical and biological sciences≫
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Daisuke Koga (Asahikawa Medical University)
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【Observer】
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Somei Onuki (Hokkaido University)

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