

WG5 Women in Physics
Report for C&CC Oct 2018
Summary of activities Oct '18- Oct '19
Prepared by: Dr Gillian Butcher (chair)

International Conference on Women in Physics

The Conference Proceedings of the 7th International Conference on Women in Physics, Birmingham, UK 2017, published by AIP, are now available.

A meeting of WG5 and the Local Organising Committee of ICWIP2020 took place at the venue at the University of Melbourne, Australia in July 2019. Dr Cathy Foley, who is leading the LOC with Dr Pegah Maasoumi and Prof. Sarah Maddison, presented the progress of their preparations for ICWIP2020 which takes place on 13th-16th July 2020, and details of the programme and proposed speakers were discussed. The WG5 was able to test out the visa process and check out the delegate accommodation.

ISC Collaborative project on the Gender Gap in Science

The ISC project *A Global Approach to the Gender Gap in Mathematical and Natural Sciences: How to Measure It, How to Reduce It?* is led by Prof Marie-Francoise Roy, of IMU, with IUPAP (led by Dr Igle Gledhill) and IUPAC (led by Prof Mei-Hung Chiu) the other main partners. The website can be found at <https://gender-gap-in-science.org/>.

A co-ordination meeting was held in Berlin, 18-19 February 2019, attended by WG5 members Silvina Ponce-Dawson, Igle Gledhill and Gillian Butcher. All three tasks of the project are making good progress towards completion: the joint Global Survey (which builds on the previous IUPAP Global Survey(s) of Physicists), a bibliometric study of publication profiles, and a database of good practice. Preparations for the final meeting of the project at ICTP Trieste 4-8th November 2019 are well underway, where the conclusions from the different strands will be discussed as well as how best to build and act upon the findings. We will also be considering ways we can build on the links made between the various womens groups of the different partner Unions.

The Joint Global Survey co-ordinated by Rachel Ivie of AIP, which was live from 1st May 2018 to the end of December 2018, had 30,500 respondents in total, with 7,865 from physicists. The responses are in the process of being analysed and free text comments (the survey was available in English, French, Arabic, Chinese, Japanese, Russian and Spanish) being translated. Initial data was presented at a special session on the Gender Gap Project at the IUPAC World Congress in Paris July 2019 where results of some of the questions were compared between 3 disciplines: Chemistry by Mei-Hung Chiu, Biology by Nathalie Fomproix and Physics by Gillian Butcher. First indications are that there is very little difference in trends between the three disciplines, which were analysed by gender and regionally.

Travel Grants

WG5 continues to distribute funds for travel grants for women from developing countries to attend conferences and workshops. A look back at the records shows that more than 400 grants have been

awarded over the 18 years of this service. Feedback collected from recipients shows the positive impact that these grants have made to individual's careers.

WG members

Following the retirement of Jackie Beamon-Kiene from her role at APS, Leah Bullis has been appointed as her replacement Secretary to WG5. We are grateful to the APS for continuing to support WG5 in this way. Jackie is continuing to assist WG5, with obtaining sponsorship for ICWIP2020.

International Committee on Ultrahigh Intensity Lasers - August 2019 Report to IUPAP

On behalf of the committee and as Chairman of the International Committee on Ultrahigh Intensity Lasers (ICUIL), I submit this report of ICUIL-related activities and events over the past 10 months to IUPAP. Obviously the biggest news in this time period is the most recent. On October 2, Professor Gerard Mourou, who was ICUIL's first chairman from 2004 to 2008, and Professor Donna Strickland were awarded the 2018 Nobel Prize in Physics for the invention of the chirped pulse amplification concept upon which nearly all of today's ~\$5B worth of ultrahigh laser activities are based. Below are photos from the awards ceremony in Stockholm. As mentioned in previous reports, Professor Mourou was the ICUIL's first chairman and served in this role from 2004 to 2008.




December 2018 - Gerard Mourou (ICUIL's 1st chairman) and Donna Strickland (left in red) Nobel Prize ceremony.

The International Committee on Ultrahigh Intensity Lasers (ICUIL) was established in 2004 as an IUPAP working group devoted to the promotion and outreach of ultrahigh intensity laser capabilities around the world. By the committee's estimate there are approximately \$5B of world wide projects and facilities today devoted to the creation and use of ultrahigh intensity laser capabilities.

Later this fall the 10th newsletter of the ICUIL will be published and will highlight both the 2018 Nobel Prize and provide details on the static and interactive maps.

Sincerely,

A handwritten signature in black ink, appearing to read "C. Barty", with a stylized flourish extending to the right.

Professor Chris Barty

Chairman of ICUIL

DRAFT MINUTES

IUPAP WG.9 Annual General Meeting held at the University of Notre Dame London Global Gateway, 1 – 4 Suffolk Street, London SW1Y 4HG, August 3, 2019

Present:

Robert E. Tribble – Chair IUPAP WG.9, Brookhaven National Laboratory, USA
Anthony W. Thomas – Past-Chair IUPAP WG.9, University of Adelaide, SA, Australia
Willem T. H. van Oers – Executive Secretary IUPAP WG.9, TRIUMF, BC, Canada
Navin Alahari – Director GANIL, France
Faical Azaiez - Director IThemba Laboratories, South-Africa
Jonathan Bagger – Director TRIUMF, BC, Canada
Angela Bracco – Past-Chair NuPECC, INFN Milano, Italy
Hideto En'yo – Director RIKEN Nishina Center for Accelerator Based Science, Japan
Claes Fahlander – Chair IUPAP C12, Lunds Universitet, Sweden
Donald F. Geesaman – Past-Chair NSAC, Argonne National Laboratory, USA
Paolo Giubellino – Scientific Director FAIR/GSI, Germany
Thomas Glasmacher – Director FRIB, USA
David W. Hertzog – Chair NSAC, University of Washington, USA
Alinka Lepine-Szily – Co-Chair ALAFNA, Universidade de Sao Paulo, Brazil
Marek Lewitowicz – Chair NuPECC, GANIL, France
Gerda Neyens, CERN-ISOLDE, KU Leuven, Belgium
Naohito Saito – Director J-PARC, Japan
Nigel J. T. Smith – Director SNOLAB, Canada
Kazuhiro Tanaka – Chair ANPhA, KEK, Japan
Hushan Xu – Director IMP-Lanzhou, China

Regrets:

Stuart Henderson – Director Jefferson Laboratory, USA
Berndt Mueller – Associate-Director BNL, Brookhaven National Laboratory, USA

Absent:

Pierluigi Campana – Director Laboratori Nazionali di Frascati, Italy
Dinakar Kanjilal – Director Inter-University Accelerator Centre, India
Kwon Young Kwan – Director RISP/IBS, Korea
Victor A. Matveev, Director JINR Dubna, Russia
Dong-Pil Min – Past-Chair ANPhA, Seoul National University, Korea

Members of IUPAP C12 present as observers:

Ani Aprahamian, University of Notre Dame, USA

Maria J. G. Borge, CERN-ISOLDE, Switzerland
Iris Dillmann, TRIUMF, BC, Canada
Fanny Farget, CNRS/IN2P3, France
Eugenio Nappi, INFN-Bari, Italy
Joachim Stroth, Universitaet Frankfurt, Germany
Hirokazu Tamura, Tohoku University, Japan
Eberhard Widmann, Austrian Academy of Sciences, Austria
Rituparna Kanungo, St. Mary's University, Canada

And invited speakers of the Nuclear Science Symposium:

Vincenzo Cirigliano, Los Alamos National Laboratory, USA
Ian Harry, University of Portsmouth
Joshua Klein, University of Pennsylvania, USA
Richard G. Miller, MIT, USA
Guillaume Pignol, LPSC, Universite de Grenoble, France
Sanja K. Reddy, INT/University of Washington, USA
Martin Savage, University of Washington, USA
Marc Vanderhaeghen, Mainz Universitaet, Germany

Funding Agency/Government representatives:

CFI, Canada – Mohammad Nasser-Eddine
CNRS/IN2P3 France – Fanny Farget
CEA France – Franck Sabatie
INFN, Italy – Eugenio Nappi
DoE, USA – Timothy Hallman
DoE, USA – Jehanne Gillo
RIKEN, Japan – Toshiyasu Ichioka
NRF, South-Africa – Molapo Qhobela
STFC, UK – Mark Thomson

Discussion points:

IUPAP Report 41:

Following the 2017 Nuclear Science Symposium held at the RIKEN Tokyo Office on August 29-30, the updated IUPAP Report 41 was posted on the IUPAP WG.9 website on February 28, 2018. It contains an Executive Summary followed by comprehensive descriptions of the topics - 'Nuclear Structure, Nuclear Reactions, and Nuclear Astrophysics', 'Hadronic Nuclear Physics', 'QCD and Quark Matter', 'Fundamental Symmetries', 'Applied Nuclear Sciences', 'Nuclear Power', and 'Future Nuclear Physics Facilities around the World'. It is the intention to augment these descriptions with the written versions of the nine presentations of the 2019 Nuclear Science Symposium held at the University of Notre Dame London Global Gateway on the topics

deemed at the forefront of current Nuclear Science. These written versions will also be published in the scientific literature, precise details still to be defined. Updated versions of descriptions of individual nuclear physics laboratories were also posted. The requirement is for these nuclear physics laboratories to have a well defined Users Group of affiliated nuclear scientists. The various nuclear physics laboratories are arranged by region and in the future also in the large nuclear physics national laboratories and smaller ones of more local interest. It appears to be a rather cumbersome task to receive up-to-date descriptions after many requests; some individual nuclear physics laboratory entries are still missing.

Note that IUPAP Report 41 also contains an addendum (IUPAP Report 41a) with a description of the large Deep Underground Research Facilities worldwide.

Current Membership of IUPAP WG.9:

Representation of CERN-Nuclear-Science has been established and Gerda Neyens of CERN-ISOLDE and the Katolieke Universiteit Leaven [1425] is the current representative.

The IUPAP WG.9 membership lists Dinakar Kanjilal , director of the Inter-University Accelerator Centre (IUAC), New-Delhi, India as the representative from India. Regrettably the Indian Government does not provide funds for this type of travel and IUPAP has only very restricted funds available. This then provides a problem in having appropriate representation from India. Note that Dinakar Kanjilal has retired and is replaced by Avinash C. Pandey. At the Nuclear Physics Division of the Bhabha Atomic Research Center (BARC), Mumba, the current head is B. K. Nayak and the Acting Director of the Variable Energy Cyclotron Centre (VECC), Kolkata, is Sumit Som. It has been suggested to follow a more direct approach resolving the question of representation from India.

A question arose about the representation from Korea.: Kwan Young Kwan was the interim director of RAON/RISP; he has been replaced by Myeun Kwon as of January 1, this year. However, Myeun Kwon is not a nuclear physicist and would like to delegate his position serving on IUPAP WG.9 to a nuclear physicist.

The Nuclear Science Symposia have several 'in-Camera' meetings of Funding Agency/Government representatives. There were two themes for these 'in-Camera' meetings at the London Global Gateway: "Electron Ion Collider" and "Ton-Scale Neutrino-less Double Beta Decay Experiments". Proper representation from China was missing. There are several distinct funding agencies for nuclear science in China. Hushan Xu, director of IMP-Lanzhou, intends to be an intermediary to resolve this issue.

IUPAP WG.9 EXECUTIVE:

At the beginning of this year Robert. E. Tribble indicated his wish to stand down as the Chair of IUPAP WG.9. The Past-Chair Anthony W. Thomas was asked to solicit nominations for a member of IUPAP WG.9 to succeed as the Chair. The nomination brought forward at the Annual General Meeting was

Angela Bracco of INFN-Milano, Past-Chair of NuPECC. This nomination was unanimously endorsed by the membership of IUPAP WG.9 at the London Global Gateway meeting. As of January 1, 2020, the Executive of IUPAP WG.9 will then consist of Angela Bracco – Chair, Robert E. Tribble – Past-Chair, Willem T. H. van Oers – (Executive) Secretary.

Anthony w. Thomas will step down as the Past-Chair on January 1, 2020. To note that he has served as the Chair of IUPAP WG.9 for nine years after its launching as an ad-hoc committee within C12 in 2003 and official recognition as one of the Working Groups of IUPAP in 2005. What has become of the Working Group and its international recognition started from the time with him as Chair (2003 – 2011).

Report from the 'in-Camera' meetings by the Chair Timothy J. Hallman, Chair:

Science topics for discussion are noted above. Elucidation of the modus operandi for research funding at the various national funding agencies was very helpful. It was concluded that discussion meetings at time intervals of about eight months would be most appropriate. The Nuclear Science Symposia should continue to occur at the current rate of once every two years.

The 2020 IUPAP WG.9 Annual General Meeting:

If the two meetings: the IUPAP C12 AGM and the IUPAP WG.9 AGM are to be held successively then the appropriate time window is about June 10 to September 10, 2020. Going over the sequence of meetings of IUPAP WG.9 the more preferred venue would be a North-American site. With the current membership of IUPAP C12 slanted towards nuclear structure, it is difficult to find a conference or symposium among those presently scheduled at a site close to a large international airport meeting the restricted travel times of the various members of IUPAP WG.9. A solution needs to be found within the next few months.

Presentations at the Nuclear Science Symposium and IUPAP WG.9 Annual General Meeting:

The agenda of these two meetings are posted separately and contain the links to the actual presentations : www.triumf.info/hosted/iupap/icnp/index.html

Acknowledgement:

On behalf of the members of IUPAP WG.9 and all others present at the two meetings thanks need to be expressed to the University of Notre Dame for acting as host for the various meetings organized by IUPAP WG.9 at the University of Notre Dame London Global Gateway.

Willem T.H. van Oers
(Executive) Secretary IUPAP WG.9
TRIUMF, August 14, 2019

Gravitational Wave International Committee (WG.11)

report to IUPAP

1 August 2019

prepared by David Shoemaker [*MIT*, Executive Secretary],
Dave Reitze [*Caltech*, Chair]

The Gravitational Wave International Committee (GWIC) was formed in 1997 to facilitate international collaboration and cooperation in the construction, operation and use of the major gravitational wave detection facilities world-wide. From 1999 until 2011, GWIC was recognized as a subpanel of PaNAGIC (IUPAP WG.4). In 2011, GWIC was accepted by IUPAP as a separate Working Group (WG.11).

GWIC meets annually adjacent to an appropriate conference. In July 2019, GWIC met in Valencia, Spain, in conjunction with GR22 and Amaldi13. Other recent meetings have been held in Chicago (2018), Pasadena (2017), New York City (2016), Gwangju (2015), Banff (2014), Warsaw (2013), Rome (2012), Cardiff (2011), and Hannover (2010). Other business during the year is conducted via email or other electronic communication. The next meeting is scheduled for July 2020, in conjunction with the 13th LISA Symposium in Glasgow, Scotland.

GWIC maintains a website at <https://gwic.ligo.org/> which contains an up-to-date listing of members, its by-laws, announcements of its activities, and links to other items of interest to the gravitational wave community.

GWIC Membership

The membership of GWIC represents all of the world's active gravitational wave projects, as well as other relevant communities, covering gravitational wave frequencies from nanohertz to kilohertz. Each project has either one or two members on GWIC depending on size. GWIC also includes representatives from ISGRG (IUPAP AC2), International Astronomical Union (IAU) Commission on Gravitational Wave Astrophysics, and from the astrophysics/theoretical relativity community, to help facilitate communication with those bodies. One current member of GWIC in (Sheila Rowan) was also a member of ApPIC (WG.10), ensuring close communications.

The GWIC Chair is elected by its membership at its annual meeting in odd years. At our 2019 meeting, GWIC chose Dave Reitze (Caltech) as its Chair, serving until 2021 (the previous Chair, Sheila Rowan, chose not to present herself for a 3rd term). This year David Shoemaker (MIT) serves as the Executive Secretary.

Each member project in GWIC determines its representatives on GWIC. New members as of July 2018 are Patrick Brady (as the new Spokesperson of the LIGO Scientific

Collaboration), and Matt Evans as the representative of a newly-admitted member, the US Cosmic Explorer 3rd Generation ground-based gravitational-wave detector Project. The full membership is given at the end of this report.

GWIC Activities in October 2018-August 2019

GWIC convened the biennial Edoardo Amaldi Conference on Gravitational Waves, sponsored by IUPAP as a "class B" Conference. The Amaldi meeting is considered by many in the gravitational wave community to be their most important international gathering. The members of GWIC serve as the Scientific Organizing Committee for the Amaldi meetings. The meeting was held with the ISGRG-sponsored International Conference on General Relativity in Valencia. Roughly 1000 persons, 20% women, from 50 countries attended this very successful meeting. The next Amaldi Conference is planned for 2021, and GWIC selected Melbourne, Australia, as the location for that meeting.

GWIC's activities in this last half-year have continued to be focused on third-generation ground-based observatories ('3G'), via a subcommittee formed in late 2016. The charge for this subcommittee is to engage the community broadly to help formulate the best possible science case and to lay out the best path toward a robust international project. This committee has created subcommittees in several crucial areas: The Science Case, Governance, R&D, and Coordination.

The Science Case subcommittee formed an informal consortium of some 200 scientists interested in exploring and documenting the science that can be done uniquely with 3G detectors and in conjunction with electromagnetic observations. The group has produced a full report, and has also written a number of more specialized documents for use in roadmaps in Europe and the US, and for proposals for continuing efforts.

The Governance subcommittee has explored existing models for large instruments and observatories in a range of fields of science, and looked at the suitability and difficulties of these models for a globally-unified network of 3G observatories. The 'ab initio' discussions of governance are being melded with the present state of the Einstein Telescope and Cosmic Explorer 3G projects. The R&D coordination subcommittee has organized sessions at R&D meetings in the field, and gathered the status and plans in various domains. The Coordination Subcommittee has been in touch with and made presentations to funding agencies and roadmapping organizations in both Europe and the US.

The materials have informed funding agencies and panels considering the future of the gravitational-wave field and more generally astrophysics and astronomy, and to help the community envision, evaluate, and plan for its future. Specifically, the European ESFRI Roadmap and the US Astrophysics 'Astro2020' Decadal Survey were informed by appropriate submissions and white papers. APPEC in Europe and the NSF-founded

Gravitational-Wave Agencies Correspondents (GWAC) have also had briefings and are reviewing near-final versions of the documents.

GWIC is also working on an update to its Roadmap for the field, as informed by the 3G studies described above. It is planned to bring this to the public awareness through an initial article in a Nature journal, and followed by a more complete in-depth Roadmap to be published by GWIC.

The next steps for the 3G effort are now in discussion and will continue to be a focus for GWAC in the coming year, as the 3G detectors move toward engagement with funding agencies, and the need for a strong advocacy program ramps up.

Membership of GWIC (as of August 2019)

Chair: Dave Reitze, California Institute of Technology and University of Florida, (GWIC, 2007–, Chair 2019–)

Cosmic Explorer: Matt Evans, MIT, 2019–

Einstein Telescope: Michele Punturo, INFN-Perugia, 2009–

European Pulsar Timing Array (EPTA): Michael Kramer, Max-Planck-Institut für Radioastronomie and Jodrell Bank Centre for Astrophysics (University of Manchester), 2009–

GEO 600: Karsten Danzmann, Albert-Einstein-Institut für Gravitationsphysik and University of Hannover, 1997–; Sheila Rowan, University of Glasgow, 2009–

IndIGO: Bala Iyer, International Centre for Theoretical Sciences (ICTS) of the Tata Institute of Fundamental Research (TIFR), 2011–; Somak Raychaudhury, Inter-University Centre for Astronomy and Astrophysics, 2017–

KAGRA: Yoshio Saito, KEK, 2013–; Takaaki Kajita, Institute for Cosmic Ray Research, University of Tokyo, 2011–

LIGO: Dave Reitze, California Institute of Technology and University of Florida, 2007–; Patrick Brady, University of Wisconsin Milwaukee, 2019–

LISA Community: Kelly Holly-Bockelmann, Vanderbilt University, 2018–; Bernard Schutz, Albert-Einstein-Institut für Gravitationsphysik, 2001–; Ira Thorpe, Goddard Space Flight Center, 2016–; Stefano Vitale, University of Trento, 2001–

NANOGrav: Scott Ransom, NRAO, 2019–

OzGrav: PPTA: Matthew Bailes, Swinburne University, 2017–; Audioband: David McClelland, Australian National University, 2000–

Virgo: Jo van den Brand, Dutch National Institute for Subatomic Physics (Nikhef) and VU University in Amsterdam, 2017–; Fulvio Ricci, University of Rome, "La Sapienza", 2014–

Theory Community: Luis Lehner, Perimeter Institute, 2018–

IUPAP Affiliate Commission AC2 (International Commission on General Relativity and Gravitation): Beverly Berger, 2013–

IAU Commission D1 Representative: Marica Branchesi, Gran Sasso Science Institute, 2017–

Executive Secretary: David Shoemaker, Massachusetts Institute of Technology, 2016–

Activities of the Working Group on the Newtonian Constant of Gravitation

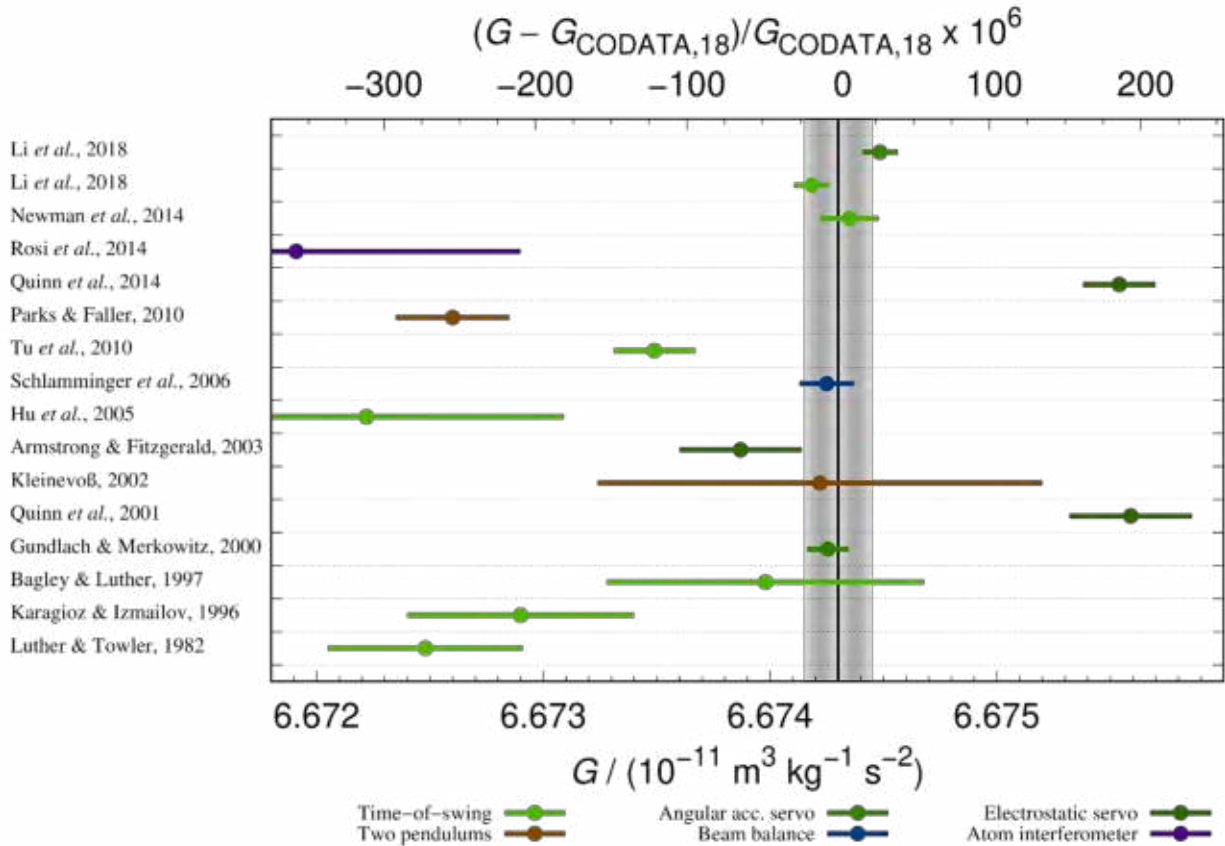
September 2018 –August 2019

Stephan Schlamminger – WG chair

Stephan.schlamminger@nist.gov

Introduction

The working group aims to understand the discrepancy between various measurements of the gravitational constant, G . Two new results were published in Nature by the researcher from Huazhong University of Science and Technology. To date, these results have reached the smallest measurement uncertainty. The figure below shows results from measurements of G that were published in the last 37 years. As can be seen from the figure the relative scatter of the results is of order 100 part in 10^6 , while the aforementioned best experiments have relative uncertainties of 12 parts in 10^6 .



Activities

On July 12th, the working group had a face to face meeting at the General Relativity-22/Amaldi-13 conference. Twelve member and guests discussed the current situation of the G results. Furthermore, possible engagements for the working group were considered.

The working group organized a session on the measurement of the Newtonian constant of gravitation at the conference. The well-attended session featured one invited presentation from HUST and several contributed talks.

The working group is actively encouraging researchers to look for systematic uncertainties. At this point, it is more important to understand the discrepancy between different results than to add another result. Even the smaller differences within a single laboratory should be investigated.

The working group is organizing a focus issue on the measurement of the gravitational constant for Metrologia.

Working Group WG-15 – Soft Matter Physics
Report to the IUPAP Council & Commission Chairs meeting
August 2019

Mandate of the proposed IUPAP Working Group on Soft Matter

1. To organize/assist in organization of the International Soft Matter Conference every 3 years in each geographic region (Europe, America, and Asia/Australia).
2. To coordinate soft-matter-related regional, national & local conferences, meetings & workshops
3. To coordinate soft matter education, such as summer schools and short courses and help organize them if a need appears
4. To promote soft matter research through information exchange, publicity, prizes, publications, etc.
5. To strengthen the connections between academic and industrial soft matter research and development through outreach events, short courses, etc.

Progress since last report:

1. **The International Soft Matter Conference 2019 was held in Edinburgh, United Kingdom from 3-7 June 2019. See <https://www.ismc2019.ed.ac.uk/> and the attached conference booklet for the details of the conference.**
2. **The WG15 had a teleconference of American Subgroup on Wednesday, April 17, 2019 to discuss the situation with the International Soft Matter Conference (ISMC) planned for June 2020 on campus of Massachusetts Institute of Technology, Cambridge, MA, USA (see attached report on ISMC 2020).**
Michael Rubinstein reported that after numerous discussions with local organizing committee, it turned out that sizes and locations of available rooms is not adequate for the planned conference. In addition, the funds secured by Spring 2019 were not sufficient to start inviting speakers. The decision was made not to hold the ISMC2020 in America.
3. **The International Soft Matter Conference 2021 is planned for December 12-17, 2021 to be held in Osaka, Japan (see conference web site <http://ismc2021.jp> and the attached poster).**
The teleconference with local organizing committee is planned for September 2019.
4. 10th International Polymer Symposium on “Molecular Order and Mobility in Polymer Systems” will be held on May 18-22, 2020 in Saint Petersburg, Russia, and is dedicated to the 100th anniversary of Polymer science and to the first formulation of the modern polymer concepts in 1920 by the future Nobel Laureate Hermann Staudinger.
5. The Summer school on “Multi-Scale Understanding of Soft Materials: From Macromolecular building blocks to soft matter physics and mechanics of soft solids” is planned for August 2-14, 2020 to be held in Cargese, France

List of Appendices

1. ISMC2019 Conference Booklet
2. ISMC2020 report
3. ISMC2021 poster



**INTERNATIONAL
SOFT MATTER
CONFERENCE
3-7 JUNE 2019**

#ISM2019
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27th May 2019

Dear delegate

Welcome to the International Soft Matter Conference 2019 in Edinburgh. This is the fifth in a series of triennial meetings organised under the auspices of the SoftComp Network. Our generous sponsors are gratefully acknowledged on the following pages (and links to their websites can be found on the conference app).

The rest of this booklet gives you all the essential information you will need to navigate your way through the Conference. If you want a hard copy, you need to print it for yourself. Note that this pdf is searchable; in particular, you can find your presentation slot, whether talk or poster, by searching for your name. More detailed information, including all the abstracts, can be found on the conference app (free, search for ISMC on Android and Apple app stores) for downloading to your device.

On behalf of all the organisers, I wish you a fruitful and enjoyable conference.

Yours

A handwritten signature in black ink, appearing to read "Wilson C K Poon".

Chair, International Programme Committee

Wilson C K Poon, FRSE
Professor of Natural Philosophy

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Venues

Registration and Information

Registration (Monday 3rd June 10:00-12:00): **McEwan Hall**

Help Desks (throughout): **McEwan Hall** and **Appleton Tower**

Scientific Programme

Plenary lectures: **McEwan Hall**

Keynote and contributed talks: **Appleton Tower**

Poster sessions: **McEwan Hall**

Exhibitions: **Appleton Tower**

Catering

Monday lunch: **McEwan Hall**

Tuesday to Thursday lunch: **McEwan Hall** and **Appleton Tower**

Vegetarian options are available at both venues; other special dietary requirements are catered for at the Appleton Tower (please identify yourselves to the catering staff, who will advise).

Friday lunch: **Appleton Tower**

Coffee/tea breaks: **McEwan Hall** and **Appleton Tower**

Reception (Monday 3rd June, 7 pm): **Teviot Row House**

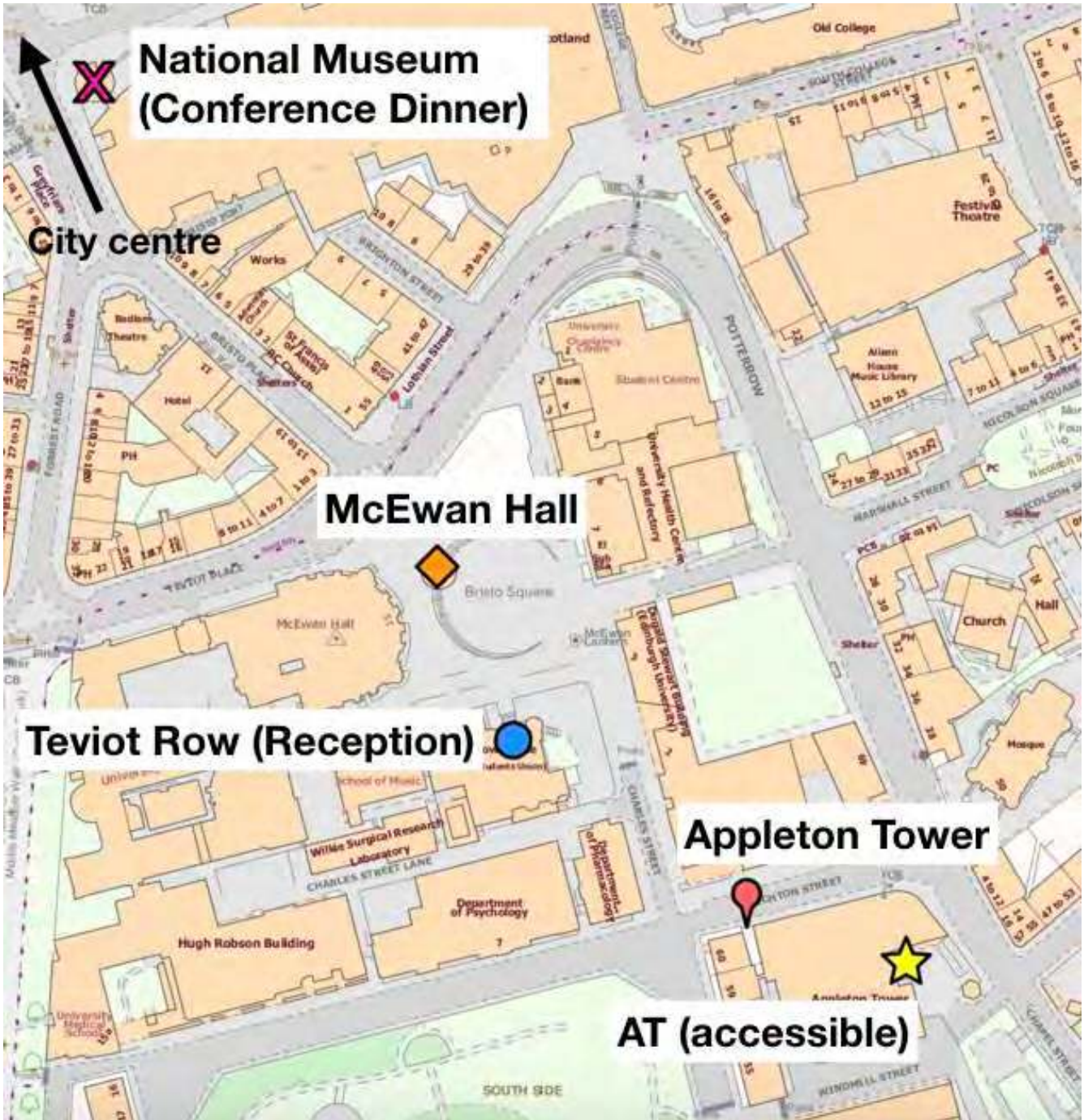
Refreshments @ posters (Tuesday 4th, Wednesday 5th June; sponsored by Zeiss): **McEwan Hall**

Gala Dinner (Thursday 6th June, 7 pm, sponsored by Solvay): **National Museum of Scotland**
(Beyond drinks included, there will be a cash bar at both the Reception and the Gala Dinner.)

Wireless access

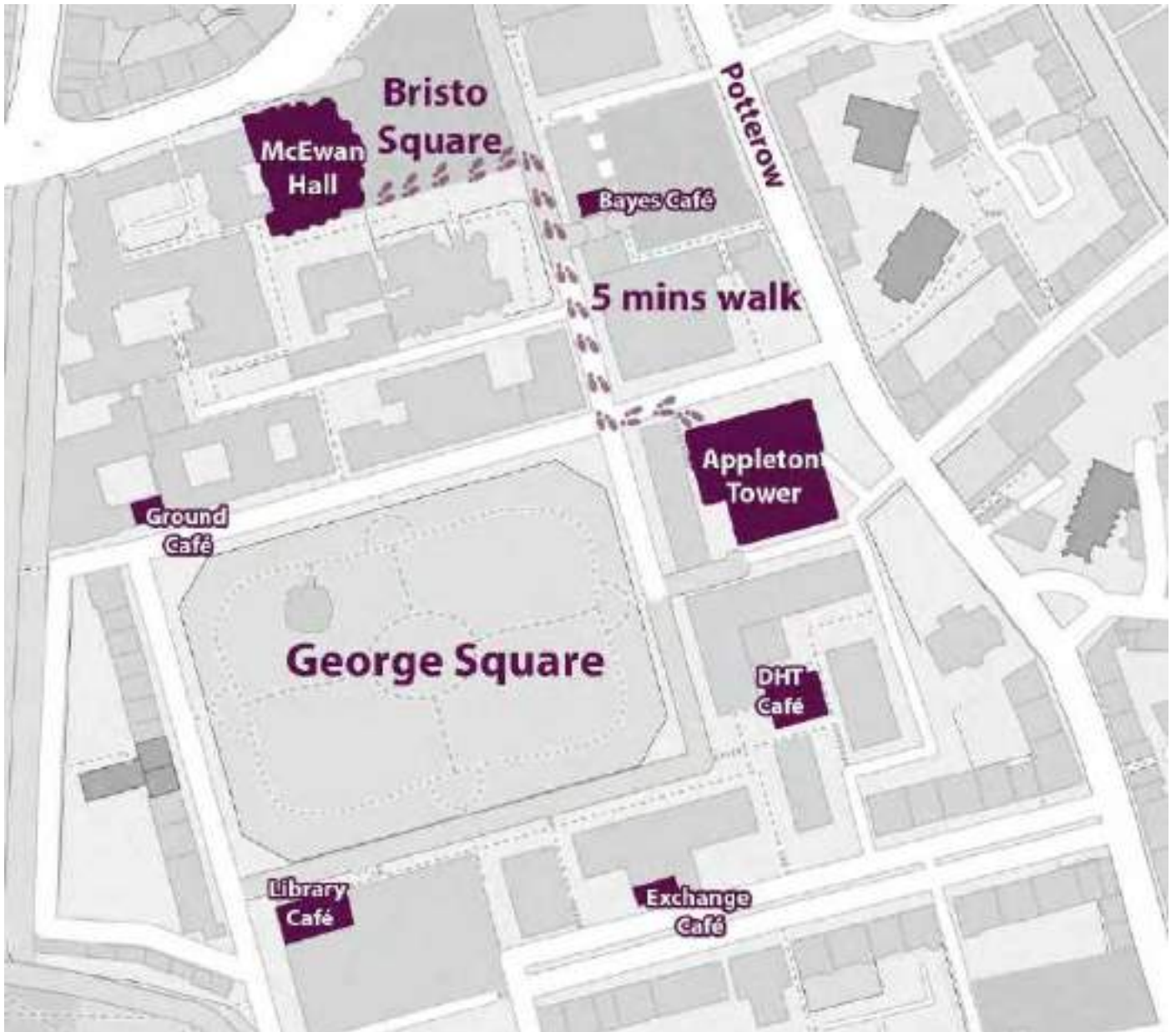
The eduroam network is available at any of the above sites except the National Museum. You can pick up a wifi pass for the University's Central network at registration, which also works at all University sites. The Optify network is available in the McEwan Hall only (no password needed). The city's EdiFreeWiFi network is available in the central areas shown on the right.





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University cafés nearby



Information for presenters

Information for plenary speakers

All plenary talks will take place in the **McEwan Hall auditorium**. Presentations are **45 minutes** long followed by 15 minutes of questions. The chair will indicate when 5 minutes of presentation time remains and stand up and approach the stage when 1 minute remains.

Please meet local staff in the auditorium 20 minutes before your lecture to connect your laptop, check your presentation and attach wireless microphone.

Connection to the projection equipment is via an HDMI or VGA; we ask that presenters *bring their own adapters* if such are needed to make these connections.

We will provide a clicker/laser pen (if required). This will connect via a USB-A connector; again please bring suitable adaptors if such are needed for your laptops.

Information for keynote and contributed talks speakers

All talks will take place in the **Appleton Tower** (Lecture Theatres 1, 2, 4 and 5).

Keynote talks are **30 minutes** long followed by 10 minutes for questions and changeover. **Contributed** talks are **15 minutes** long with 5 minutes for questions and changeover. The chair will indicate when 5 minutes presentation time remain and stand up when 1 minute remains.

Speakers should go to the relevant lecture theatre during the catering break (coffee/tea or second half of lunch) prior to the session to check their presentations display correctly from their laptops. (In addition, the lecture theatres will be staffed on the morning of Monday 3rd June – so do feel free to go there and try out your presentation immediately after you have registered.)

Connection to the projection equipment is via HDMI or VGA; we ask that presenters *bring their own adapters* if such are needed to make these connections.

The laptop of a contributed talk speaker will be disconnected during questions to allow the next speaker to connect up.

For presenters without their own laptops we have a Windows 10 guest machine onto which PDF and PowerPoint (2016 edition) files can be loaded. In this case, please bring a USB-A compatible pen- or hard-drive at the start of the catering break prior to their session to load up.

We will provide a clicker/laser pen (if required). This will connect via a USB-A connector; again please bring suitable adaptors if such are needed for your laptops.

Information for poster presenters

There will be two posters sessions: 17:00-19:00 on Tuesday 4th and Wednesday 5th June. There are numbered poster boards in the McEwan Hall basement Foyers 1-4. Check the code of your poster (most easily from the poster index in the Conference Booklet pdf) and put it up from 9 am of the day of your presentation. We will provide the means for you to attach the posters to the boards. As noted in the original email sent to you accepting your contribution, we can accommodate up to A0 (841 wide x 1189 height mm) posters only **in portrait (vertical) format**.

Please take down your posters at the end of each session. Any posters not taken down will be removed and discarded.

The winners of ‘most popular poster’ prizes (one per session) will be notified by email on Thursday 6th June, and the prizes will be presented to them before the plenary lecture on Friday 7th.

Monday 3rd					
Location:	McDermott	Appleton Tower 1	Appleton Tower 2	Appleton Tower 4	Appleton Tower 5
09:00					
09:30					
10:00	Registration				
10:30					
11:00					
11:30					
12:00					
12:30	Lunch				
13:00	Opening/ Welcome				
13:30	Opelotti				
14:00					
14:30					
15:00	Coffee Break				
15:30		Colloidal Soft Matter A	Amorpha Soft Matter A	Active Soft Matter A	Making Soft Matter A
16:00					
16:30					
17:00	Break				
17:30	Remembrance				
18:00					
18:30					
19:00	Reception (Tent)				
Tuesday 4th					
Location:	McDermott	Appleton Tower 1	Appleton Tower 2	Appleton Tower 4	Appleton Tower 5
09:00	Reception				
09:30					
10:00	Coffee Break				
10:30					
11:00					
11:30					
12:00					
12:30					
13:00	Lunch				
13:30		Self-Assembled Soft Matter C	Polymeric Soft Matter C	Active Soft Matter B	Colloidal Soft Matter B
14:00					
14:30					
15:00	Coffee Break				
15:30	Work				
16:00					
16:30					
17:00					
17:30					
18:00	Foster Session I				
18:30					
19:00					
Wednesday 5th					
Location:	McDermott	Appleton Tower 1	Appleton Tower 2	Appleton Tower 4	Appleton Tower 5
09:00	Reception				
09:30					
10:00	Coffee Break				
10:30					
11:00					
11:30					
12:00					
12:30					
13:00	Lunch				
13:30		Processing Soft Matter B	Amorpha Soft Matter B	Interfacial Soft Matter C	Active Soft Matter C
14:00					
14:30					
15:00	Coffee Break				
15:30	Ersg				
16:00					
16:30					
17:00					
17:30					
18:00	Foster Session II				
18:30					
19:00					
Thursday 6th					
Location:	McDermott	Appleton Tower 1	Appleton Tower 2	Appleton Tower 4	Appleton Tower 5
09:00	Reception				
09:30					
10:00	Coffee Break				
10:30					
11:00					
11:30					
12:00					
12:30					
13:00	Lunch				
13:30		Making Soft Matter C	Processing Soft Matter C	Interfacial Soft Matter B	Living Soft Matter B
14:00					
14:30					
15:00	Coffee Break				
15:30	Dougherty				
16:00					
16:30					
17:00					
17:30					
18:00	Sole Dinner (Nation & Museum of Scotland)				
Friday 7th					
Location:	McDermott	Appleton Tower 1	Appleton Tower 2	Appleton Tower 4	Appleton Tower 5
09:00	Reception				
09:30					
10:00	Coffee Break				
10:30		Polymeric Soft Matter D	Interfacial Soft Matter D	Active Soft Matter D	Colloidal Soft Matter D
11:00		Self-Assembled Soft Matter D		Living Soft Matter D	Processing Soft Matter D
11:30					
12:00					
12:30		Lunch			
13:00					
13:30					

Schedule of Talks

Organisation of topics into sessions

Each of the nine conference topics attracts three or four sessions, A, B, C and sometimes D. Sessions A and B each opens with a keynote talk followed by 4 contributed talks, while sessions C and D each comprises 6 contributed talks. Under each topic, the programme lists the sessions in their chronological order, which is sometimes not alphabetical; thus, e.g., the sessions for Interfacial Soft Matter are ordered C, A, B, D. In a few cases, the D session of two topics, e.g., Colloidal and Processing & Stressed Soft Matter, are joint.

Plenary Talks

All plenary talks are held in McEwan Hall.

- Monday, June 3 14:00 *Why soft solids fail*
Luca Cipelletti (University of Montpellier)
- Monday, June 3 18:00 *Fast, Elastic, Defective, Active Matter*
Sriram Ramaswamy (Indian Institute of Science, Bengaluru)
- Tuesday, June 4 9:00 *Flow and rheology at ultimate scales*
Lydéric Bocquet (CNRS, ENS)
- Wednesday, June 5 9:00 *A Cabinet of Curiosities: Stories of Electrostatics in Soft Matter*
Susan Perkin (University of Oxford)
- Wednesday, June 5 16:00 *Macromolecular Mechanochemistry*
Stephen Craig (Duke University)
- Thursday, June 6 9:00 *Tough topological polymers and their applications to energy-efficient vehicles and medicine*
Kohzo Ito (University of Tokyo)
- Thursday, June 6 16:00 *Building synthetic cells*
Marileen Dogterom (TU Delft)
- Friday, June 7 9:00 *Biofilms: Whats in it for Soft Matter?*
Cait MacPhee (University of Edinburgh)

Special Session: The 2019 RSC Soft Matter Lecture

(McEwan Hall)

- Tuesday, June 4 16:00 *Pixelated Polymers: Programming Function into Liquid Crystalline Polymer Networks and Elastomers*
Tim White (University of Colorado Boulder)

Active Soft Matter

Session A: *The Appleton Tower Lecture Theatre 4*

Monday, June 3

15:30 **Keynote:** *Spontaneous and driven active matter flows*

CLÉMENT, Eric

16:10 *Group formation and cohesion of active particles with visual perception-dependent motility*

LAVERGNE, Francois A.

16:30 *Controlling efficiently active soft matter with light: from optical microfibers to photokinetic cells*

MAGGI, Claudio

16:50 *Active apolar doping determines routes to colloidal clusters and gels*

MASSANA-CID, Helena

17:10 *Resonant motion of magnetocapillary swimmers: lattice-Boltzmann simulations*

SUKHOV, Alexander

Session B: *The Appleton Tower Lecture Theatre 4*

Tuesday, June 4

13:30 **Keynote:** *Optimal navigation strategies of active colloids in complex environment*

LÖWEN, Hartmut

14:10 *Lattice Boltzmann simulations of collective phenomena in microswimmer suspensions*

BARDFALVY, Dora

14:30 *Bottom-up mechanisms for the emergence of swarming*

CHARLESWORTH, Henry

14:50 *Effective Interactions and Dynamics of Active Colloids in Phase Separating Medium*

NARAYANAN, Theyencheri

15:10 *Self-propelled particles in 3D: phase behaviour and dynamics*

SAKAI, Nariaki

Session C: *The Appleton Tower Lecture Theatre 5*

Wednesday, June 5

10:30 *Bistability in wall aggregation of active Brownian particles*

CHELAKKOT, Raghunath

10:50 *Dial-a-plume: Localised Photo-Bio-Convection On Demand*

POLIN, Marco

11:10 *Optimizing dissipation in active matter: dynamical phase transitions, clustering and collective motion*

FODOR, Etienne

11:30 *Acoustic confinement of swimming bacteria*

HOYOS, Mauricio

11:50 *Active matter and active materials: Emerging behavior in intrinsically out of equilibrium systems*

PAGONABARRAGA, Ignacio

12:10 *Active filaments: Emergent conformational and dynamical properties*

WINKLER, Roland G.

Session D (shared with Living Soft Matter): *The Appleton Tower Lecture Theatre 4*

Friday, June 7

10:30 *Defect dynamics and reconfigurable flows in confined active soft matter*

IGNÉS-MULLOL, Jordi

10:50 *Correlation length of bacterial turbulence*

MARTINEZ, Vincent Arnaud

11:10 *Wave Front Propagation Speeds in a Bacteriophage - Bacteria System*

CLAYDON, Rory

11:30 *Active vesicles: a minimal model for cell motility*

ABAURREA-VELASCO, Clara

11:50 *Stress management in composite biopolymer networks*

TAUBER, Justin

12:10 *Hydrodynamic coupling between artificial cilia*

VILFAN, Mojca

Arrested Soft Matter

Session A: *The Appleton Tower Lecture Theatre 2*

Monday, June 3

15:30 **Keynote:** *Topology, softness and rigidity in gel networks*

DEL GADO, Emanuela

16:10 *Strain localisation during yielding of soft materials*

BARLOW, Hugh

16:30 *Multi-scale relaxation in aging gels: from localized plastic events to system-spanning ‘quakes’*

BUZZACCARO, Stefano

16:50 *Microscopic Force Measurements in Colloidal Gels*

DONG, Jun

17:10 *Using sequential gelation as a method to direct gel structure and mechanics*

IMMINK, Jasper

Session C: *The Appleton Tower Lecture Theatre 4*

Wednesday, June 5

10:30 *Surface Active Microgels: a step towards soft stabilisers*

CROSBY, David

10:50 *Strongly heterogeneous motion at the depinning transition in dense dispersions*

FUCHS, Matthias

11:10 *The microscopic role of deformation in the dynamics of soft colloids*

GNAN Nicoletta

11:30 *Relaxation of weakly self-propelled particles dramatically changes at glass transition*

LEOCMACH, Mathieu

11:50 *Sheared colloidal gels: Effects of having a viscoelastic matrix*

MASSARO, Roberta

12:10 *Anisotropic Dynamics and Kinetic Arrest of Dense Colloidal Ellipsoids in the Presence of an External Field Studied by Differenti*

PAL, Antara

Session D: *The Appleton Tower Lecture Theatre 2*

Wednesday, June 5

13:30 *Chain-length dependent relaxation dynamics and glass-formation in polymers*

MATTSSON, Johan

13:50 *Correlations and forces in sheared fluids with or without quenching*

ROHWER, Christian

14:10 *Orthogonal superposition rheometry of model colloidal glasses with short-ranged attractions*

PETEKIDIS, George

14:30 *Shear-stress relaxation in free-standing polymer films*

WITTMER, J. P.

14:50 *Jamming in star polymer solutions and melts*

GURY, Leo

15:10 *Jamming and yielding in an athermal dense suspension of amorphous particles*

MAJUMDAR, Sayantan

Session B: *The Appleton Tower Lecture Theatre 1*

Thursday, June 6

10:30 **Keynote:** *Towards an Understanding of the Glass Transition? Insights from Experiment and Simulation*

ROYALL, Paddy

11:10 *Microscopic pathways for stress relaxation in repulsive colloidal glasses*

DALLARI, Francesco

11:30 *Arresting colloidal model systems*

NIKOLAENKOVA, Anna

11:50 *Slowing down supercooled liquids by manipulating their local structure*

SMALLENBURG, Frank

12:10 *How active forces influence nonequilibrium glass transitions*

SZAMEL, Grzegorz

Colloidal Soft Matter

Session A: *The Appleton Tower Lecture Theatre 1*

Monday, June 3

15:30 **Keynote:** *Law and Disorder: The unusual behaviour of ultraweak crystals*

SPRAKEL, Joris

16:10 *Nanoscale optical imaging of individual and densely packed microgel colloids*

SCHEFFOLD, Frank

16:30 *Distributions of first passage times reveal underlying free energy landscapes*

THORNEYWORK, Alice

16:50 *Aggregation of colloidal particles in the presence of hydrophobic anions*

TREFALT, Gregor

17:10 *Vertically-vibrated granular rods: topological defects and influence of imposed geometry*

VELASCO, Enrique

Session B: *The Appleton Tower Lecture Theatre 5*

Tuesday, June 4

13:30 **Keynote:** *Mix and Melt Colloidal engineering*

SACANNA, Stefano

14:10 *Assembly of patterned colloids close to a patterned substrate*

BIANCHI, Emanuela

14:30 *Reentrant transitions of adaptive dsDNA colloids*

LAURATI, Marco

14:50 *Dynamics of a forced large colloidal particle in a bath of colloidal hard spheres: Simulations and theory*

PUERTAS, Antonio

15:10 *An electric field responsive colloidal metamaterial*

ROGIER, Faranaaz

Session C: *The Appleton Tower Lecture Theatre 2*

Thursday, June 6

10:30 *Environmental nanoparticle-induced toughening and pinning of a crack in a biopolymer hydrogel*

BAUMBERGER, Tristan

10:50 *Hard times for hard spheres: Enhanced crystallization of the Laves phase from soft colloids*

COLI, Gabriele Maria

11:10 *Dynamics of soft and permeable particles suspensions*

NAEGELE, Gerhard

11:30 *Modification of wave velocity in a string fluid*

SCHWABE, Mierk

11:50 *What controls the response of soft microgels to overcrowded environments: cross-link density or architecture?*

SCOTTI, Andrea

12:10 *Shape is coupled to diffusion for flexible colloidal chains*

VERWEIJ, Ruben W.

Session D (shared with Processing & Stressed Soft Matter): *The Appleton Tower Lecture Theatre 5*

Friday, June 7

10:30 *Reversible cluster formation, gelation and glassy dynamics in colloidal dispersions*

CASTAÑEDA-PRIEGO, Ramón

10:50 *Structure of colloidal dispersions under shear probed by X-ray cross-correlation analysis*

KOOFF, Michael

11:10 *Advanced modelling of microgel structure across the volume phase transition*

NINARELLO, Andrea

11:30 *External and internal deformations of colloidal crystals*

BUTTINONI, Ivo

11:50 *Extrusion of shear thickening suspensions: Variations in local solid concentrations*

O'NEILL, Rory

12:10 *Dynamics of non-spherical particles in non-Newtonian fluids with applications to microfluidic separations*

NARSIMHAN, Vivek

Interfacial Soft Matter

Session C: *The Appleton Tower Lecture Theatre 4*

Wednesday, June 5

13:30 *Capillary phenomena in miscible fluids*

CARBONARO, Alessandro

13:50 *Investigating the aging of model liquid infused porous surfaces*

GOODBAND, Sarah

14:10 *Phase transitions on non-uniform curved surfaces: Coupling between phase and location*

LAW, Jack O.

14:30 *Thermophoresis in self-associating systems*

PIAZZA, Roberto

14:50 *Time-resolved charging dynamics of confined electric double layer*

TIVONY, Ran

15:10 *Biologically Active Liquid Crystal Droplets*

SHARMA, Kamendra

Session A: *The Appleton Tower Lecture Theatre 4*

Thursday, June 6

10:30 **Keynote:** *Growing and shrinking bubbles, enhanced Ostwald ripening via mass transport in nanometer thick films*

DAGASTINE, Ray

11:10 *How to unify diffusio-phoresis, Marangoni and osmotic flows with interfacially driven transport of soft matter?*

BACCHIN, Patrice

11:30 *The effect of interfacial viscosity on the dynamics, rheology, and breakup of droplets*

NARSIMHAN, Vivek

11:50 *Soluble surfactant spreading: How the amphiphilicity sets the Marangoni hydrodynamics*

SAINT-JALMES, Arnaud

12:10 *Dynamics of Membrane Wrapping of Microparticles*

SPANKE, Hendrik

Session B: *The Appleton Tower Lecture Theatre 4*

Thursday, June 6

13:30 **Keynote:** *Demixing on curved surfaces*

KRAFT, Daniela

14:10 *Formation of Suspended Bilayers at the Air-Water Interface: A Novel Bacterial Membrane Mimic*

AYSCOUGH, Sophie

14:30 *Ions can generate large membrane curvatures*

MARZIEH Karimi

14:50 *Collective dynamics in a mixed lipid bilayer*

NAGAO, Michihiro

15:10 *Nanoparticle engulfment by bilayer membranes with compositional asymmetry*

SREEKUMARI, Aparna

Session D: *The Appleton Tower Lecture Theatre 2*

Friday, June 7

10:30 *How are salivary pellicles affected by surfactants of different ionic character?*

BOYD, Hannah

10:50 *Anisotropic self-assembly from isotropic colloidal building blocks*

BUZZA, Martin

11:10 *Microgels adsorbed at liquid-liquid interfaces: insights from realistic modelling and experiments*

CAMERIN, Fabrizio

11:30 *Confocal microscopy study of the interaction between particle-stabilised droplets and a solidification front*

DICKINSON, Katy

11:50 *Ionic Coulomb blockade as a fractional Wien effect*

KAVOKINE, Nikita

12:10 *Tribological properties of nanoconfined ionic liquids at metallic interfaces*

LAINE, Antoine

Living Soft Matter

Session C: *The Appleton Tower Lecture Theatre 4*

Tuesday, June 4

10:30 *Tooling up to build an artificial cell*

BEALES, Paul

10:50 *Phase transition behaviour in single solid-supported lipid bilayer*

GERELLI, Yuri

11:10 *Model of ciliated-cell collective behavior and mucus transport in bronchial epithelium*

GSELL, Simon

11:30 *Misalignment between magnetic dipole moment and cell axis in the magnetotactic bacterium *Magnetospirillum magneticum* AMB-1*

LE NAGARD, Lucas

11:50 *Fluid flow and motility control initial bacterial colonization on curved surfaces*

SECCHI, Eleonora

12:10 *Low Dose Antibiotics Can Cause Bacterial Aggregation*

TAVADDOD, Sharareh

Session A: *The Appleton Tower Lecture Theatre 5*

Thursday, June 6

10:30 **Keynote:** *Phase-separation in an elastic matrix: from living cells to synthetic materials*

DUFRESNE, Eric

11:10 *Unjamming overcomes kinetic arrest in terminally differentiated cells and promotes collective motility of carcinoma*

GIAVAZZI Fabio

11:30 *Toward the creation of 2D or 3D clusters of cells in acoustic levitation*

JEGER, Nathan

11:50 *Confinement-induced transition between wave-like collective cell migration modes*

LE GOFF, Magal

12:10 *Label-free, spatio-temporal monitoring of cytosolic mass, osmolarity and volume, in living cells*

MIDTVEDT, Daniel

Session B: *The Appleton Tower Lecture Theatre 5*

Thursday, June 6

13:30 **Keynote:** *Peeking and poking biological matter using optical tweezers in combination with single-molecule fluorescence microscopy*

PETERMAN, Erwin

14:10 *Bacterial chromosome organization: special crosslinks, confinement effects and molecular crowders play the pivotal roles*

CHATTERJI, Apratim

14:30 *Inter-protein forces as a cell-membrane organization principle*

DESTAINVILLE, Nicolas

14:50 *Adhesion remodelling upon cell shrinking*

STAYKOVA, Margarita

15:10 *Bacteria as living patchy colloids: Phenotypic heterogeneity in surface adhesion*

VISSERS, Teun

Session D (shared with Active Soft Matter): *The Appleton Tower Lecture Theatre 4*

Friday, June 7

See Active Soft Matter Session D for detail.

Making and Measuring Soft Matter

Session A: *The Appleton Tower Lecture Theatre 5*

Monday, June 3

15:30 **Keynote:** *Hierarchical biomechanics: from single folded proteins to cross-linked protein networks*

DOUGAN, Lorna

16:10 *Design and synthesis of catalytically active CoFe_2O_4 @Pt nanostructures*

MARTINEZ, Yeimy

16:30 *Functional Multicomponent Protein Networks with Tunable Domain Size*

RIOS DE ANDA, Ioatzin

16:50 *The structural colors of random assembled monodisperse colloids*

SCHERTEL, Lukas

17:10 *Biomimetic folding particle chains*

VAN OOSTRUM, Peter

Session B: *The Appleton Tower Lecture Theatre 1*

Wednesday, June 5

10:30 **Keynote:** *Measuring Flow in Yield Stress Fluids*

LYNCH, Matt

11:10 *Tracking-free one- and two-point microrheology of soft materials*

CERBINO, Roberto

11:30 *Colloidal SU-8 polymer rods for three-dimensional confocal imaging and optical tweezing*

FERNÁNDEZ-RICO, Carla

11:50 *Operation Windows for Interfacial Rheometry*

RENGGLI, Damian

12:10 *Learning force fields from stochastic trajectories*

RONCERAY, Pierre

Session C: *The Appleton Tower Lecture Theatre 1*

Thursday, June 6

13:30 *'Hot Spots' in pore scale flow through soft carbon fibre felt electrodes limit the efficiency of Redox Flow*

Battery operation

BOEK, Edo

13:50 *Polymer dynamics and the new high-resolution J-NSE at MLZ*

PASINI, Stefano

14:10 *Bottom-up Synthesis of Polymeric Micro- and Nanoparticles with Regular Anisotropic Shapes*

LESOV, Ivan

14:30 *Switchable 3d morphing configurations by stimuli responsive heterogeneous hydrogel*

LI, Yifan

14:50 *Polymeric nanoparticles aplenty*

NIKOUBASHMAN, Arash

15:10 *Preserving the cavity of hollow microgels by introducing charges into the polymeric network*

TURNHOFF, Sarah K.

Polymeric Soft Matter

Session A: *The Appleton Tower Lecture Theatre 5*

Tuesday, June 4

10:30 **Keynote:** *Flow-Induced Crystallization of Engineering Thermoplastics*

COLBY, Ralph

11:10 *Load distributions in multi-network elastomers*

BOSE, Anwasha

11:30 *Biompatible hydrogels: formation and structure*

RAFFAELLI, Chiara

11:50 *Domain formation in compaction of a semiflexible polymer*

CURK, Tine

12:10 *Random-packed structures of rings as a model system of Soft Matter problems*

GARCÍA, Nicolás A.

Session C: *The Appleton Tower Lecture Theatre 2*

Tuesday, June 4

13:30 *General methodology to identify the minimum alphabet size for heteropolymer design*

COLUZZA, Ivan

13:50 *A geometric model for the erosion and fragmentation of polymers in the ocean*

FABRE, Pascale

14:10 *Structure and Dynamics of Single-Chain Polymeric Nanoparticles under Shear Flow in Dilute and Concentrated Solution*

FORMANEK, Maud

14:30 *Topological Tuning of Polymer Dynamics*

MICHIELETTO, Davide

14:50 *Direct visualization of comb polymer dynamics in unentangled semi-dilute solutions using single molecule studies*

PATEL, Shivani Falgun

15:10 *Characterizing and controlling elastic turbulence in a viscoelastic fluid*

VAN BUEL, Reinier

Session B: *The Appleton Tower Lecture Theatre 2*

Wednesday, June 5

10:30 **Keynote:** *Why ‘bad’ is ‘good’: Polydispersity in polymeric nanostructures*

SCHMID, Friederike

11:10 *Nanocomposites Drying : Structural Evolution from Solution to Solid*

ERMAN, Azad

11:30 *The microscopic origin of the rheology in supramolecular entangled polymers*

GOLD, Barbara

11:50 *Unipletion in colloid-polymer mixtures*

GONZÁLEZ GARCÍA, Álvaro

12:10 *Structure and elasticity of the endothelial glycocalyx*

LOBASKIN, Vladimir

Session D (shared with Self-assembled Soft Matter): *The Appleton Tower Lecture Theatre 1*

Friday, June 7

10:30 *Smart Adsorption, playing with geometry to enhance selectivity*

CAPONE, Barbara

10:50 *Investigating DNA-based dendrimers: theory and experiment*

JOCHUM, Clemens

11:10 *Polymer foams by using microfluidics*

RUSSO, Maria

11:30 *Silk: A natural example of a sticky entangled polymer*

SCHAEFER, Charley

11:50 *Material properties of hybrid lipid-polymer vesicles: towards artificial systems for enhanced membrane protein function*

SENEVIRATNE, Rashmi

12:10 *Condensation and demixing in solutions of DNA nanostars and their mixtures*

LOCATELLI, Emanuele

Processing & Stressed Soft Matter

Session A: *The Appleton Tower Lecture Theatre 1*

Tuesday, June 4

10:30 **Keynote:** *Cavitation and Puncture: Crack Nucleation in Soft Solids*

CROSBY, Al

11:10 *Soft lubrication with polymer brushes*

BUREAU, Lionel

11:30 *Demonstrating stress transfer between networks in multiple network elastomers with mechanochemistry*

CHEN Yinjun

11:50 *High dynamic range, bio-inspired stress-sensing in polymers*

CLOUGH, Jessica

12:10 *Mechanical Properties and Failure of Physically Assembled Polystyrene-Polyisoprene-Polystyrene Gels in a Mid-block Selective Sol*

Kundu, Santanu

Session B: *The Appleton Tower Lecture Theatre 1*

Wednesday, June 5

13:30 **Keynote:** *From soft matter rheology to civil engineering*

OVARLEZ, Guillaume

14:10 *On flow, fracture and getting jammed – Failure modes in dense suspensions*

BISCHOFBERGER, Irmgrad

14:30 *Temperature Dependent Aging and Yield of Drilling Fluids*

CLARKE, Andrew

14:50 *A minimal-length approach unifies rigidity in under-constrained materials*

MERKEL, Matthias

15:10 *Repulsion, attraction and contact in dense suspensions*

ROYER, John

Session C: *The Appleton Tower Lecture Theatre 2*

Thursday, June 6

13:30 *Sorting cells in microfluidics based on their intrinsic properties*

FEDOSOV, Dmitry

13:50 *Influence of surfactant dynamics on the length scale of avalanches in foam coalescence*

MIKHAILOVSKAYA, Alesya

14:10 *Capillary Rheo-SANS: Measuring the rheology and nanostructure of soft matter at high shear rates*

MURPHY, Ryan P.

14:30 *Crack Propagation Behaviour of Polyurethane Thermoplastic Elastomers in Cyclic Fatigue*

SCETTA, Giorgia

14:50 *Small-scale fracture in soft solids*

STYLE, Robert

15:10 *Dynamics of Viscoelastic Filaments based on Onsager Principle*

ZHOU, Jiajia

Session D (shared with Colloidal Soft Matter): *The Appleton Tower Lecture Theatre 5*

Friday, June 7

See Colloidal Soft Matter Session D for detail.

Self-assembled Soft Matter

Session A: *The Appleton Tower Lecture Theatre 2*

Tuesday, June 4

10:30 **Keynote:** *Ionic Liquid Crystals: Controlling Self-Assembly and Function through Charge and Symmetry*

LASCHAT, Sabine

11:10 *Under the Smectic Blanket: Biaxial, Twist- and Splay-bend nematics revealed destabilizing the Smectic phase of Hard Boomerangs*

CHIAPPINI, Massimiliano

11:30 *Understanding the helix pitch of the equilibrium cholesteric CNC phases*

HONORATO-RIOS, Camila

11:50 *Controlling Gel Properties by Chirality*

DAVE, Adams

12:10 *Monitoring Self-Assembly of Nanocrystal Superlattices by Time- and Space-Resolved SAXS*

LOKTEVA, Irina

Session C: *The Appleton Tower Lecture Theatre 1*

Tuesday, June 4

13:30 *Tracking the Molecular Organisation of Water and Alcohol Mixtures at Hydrophobic Solid Interfaces*

FOSTER, Will

13:50 *Chirality-Controlled Self-Assembly via Topological Defects*

GRELET, Eric

14:10 *Pressure-stimulated supercrystal formation in nanoparticle suspensions*

LEHMKÜHLER, Felix

14:30 *An old tool for a new problem: tunable electrostatic adsorption via Pnipam microgels*

SENNATO, Simona

14:50 *Assembly of clathrates from tetrahedral patchy colloids with narrow patches*

NOYA, Eva G

15:10 *Unique mechanics of biopolymer microgels prepared inside artificial cells*

YANAGISAWA, Miho

Session B: *The Appleton Tower Lecture Theatre 5*

Wednesday, June 5

13:30 **Keynote:** *Squids as soft matter: evolved self-assembly of gradient-index lenses and light guides*

SWEENEY, Alison

14:10 *Colloids Get Creative: Key to Open Crystals*

CHAKRABARTI, Dwaipayan

14:30 *Mosaics of patchy rhombi: from close-packed arrangements to open lattices*

KARNER, Carina

14:50 *Self-assembly of type I collagen fibrils in solution*

NUDELMAN, Fabio

15:10 *Binary Hard Sphere Icosahedral Quasicrystals*

VAN BLAADEREN, Afons

Session D (shared with Polymeric Soft Matter): *The Appleton Tower Lecture Theatre 1*

Friday, June 7

See Polymeric Soft Matter Session D for detail.

Schedule of Posters

McEwan Hall Basement

Session A: Tuesday 4th June 17:00-19:00

Active Soft Matter	AC1	to	AC49
Arrested Soft Matter	AR1	to	AR17
Colloidal Soft Matter	CO1	to	CO20
Interfacial Soft Matter	IN1	to	IN22
Polymeric Soft Matter	PO1	to	PO16
Self Assembled Soft Matter	SA1	to	SA18

Session B: Wednesday 5th June 17:00-19:00

Colloidal Soft Matter	CO21	to	CO52
Interfacial Soft Matter	IN23	to	IN45
Living Soft Matter	LI1	to	LI16
Making & Measuring Soft Matter	MA1	to	MA9
Polymeric Soft Matter	PO17	to	PO41
Processing & Stressed Soft Matter	PR1	to	PR17
Self Assembled Soft Matter	SA19	to	SA36

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The main objective of the International Soft Matter Conference is to bring together scientists working in different areas of soft matter that otherwise attend different meetings and encourage them to interact with each other. It is designed to be more than parallel symposia on different topics, but instead to encourage exchange of ideas and methods between different fields. For that reason a typical day of the conference consists of

- i. several plenary lectures by leaders of the field to the whole conference (typically one in the morning and one in the afternoon) requiring a large lecture hall for ~1000 people (the target size of the conference is 800 – 1000);
- ii. several (3-4) parallel sessions of invited talks in close proximity of each other so that people can easily switch from session to session
- iii. poster sessions with hundreds of posters presented by students and post-docs exhibiting the broad spectrum of soft matter research.

The current options we have at MIT are limited by the rooms we were able to reserve for the conference. We cannot reserve any classrooms until 6 months before the event (around Christmas break). The rooms that we were able to reserve are at two locations ~20 minute walk from each other – one on west campus (Kresge & Student Center west of Massachusetts Avenue) and the other on East campus (Samberg & Tang Centers)- see the map on page 10.

The current options for the ISMC 2020 are (see pages 10-15 for details):

1. **East-West Option.** To have all plenary lectures in the morning in Kresge auditorium (1200 seats) and poster session in the morning & during lunch in Sala at the Stratton Student Center on West Campus and then have everybody move to East Campus for the afternoon break-out sessions. Available rooms: Samberg 7th floor MIT room: 400, Samberg 6th floor Dining rooms 3/4 :200 + 5/6: 200; and nearby Tang Center with Wang Auditorium for ~290. **Positive** – larger modern rooms. **Negative:** inconvenient to walk back and forth between West and East Campuses; the rent of East campus facilities is quite high (~\$50k).
2. **West Campus outdoor option.** To keep all events on West Campus: Plenary lectures and one of the break-out sessions at the Kresge auditorium, while the three remaining break-out sessions at Kresge Little theater (200 seats), and two rooms in the Stratton Student Center: 2nd floor Sala de Ruerto Rico (200 + seats) and 3rd floor Twenty Chimneys (150 people). **Positive:** close location. **Negative:** poster session would have to be outside under the tent at the Kresge oval (which is expensive and could be a problem depending on weather).
3. **West Campus indoor option.** Plenary lectures and one of the break-out sessions at the Kresge auditorium, while the remaining break-out sessions at Kresge Little theater (200 seats), and two rooms in the Stratton Student Center: 3rd floor Twenty Chimneys (150 people) and 4th floor room 407 (130 seats). We could even add fifth session or another event at the 4th floor room 491 (130 seats). In this case, poster session would be inside at the 2nd floor Sala de Ruerto Rico and West Lounge. **Positive:** close location, indoor poster session. **Negative:** two smaller break-out rooms – ok for a smaller meeting size (or with more break-out sessions).

ISMC 2020 (June 28 – July 2)

To do list

- The program committee will work closely with the local organizing committee
- Head of the local organizing committee (Niels Holten-Andersen) needs to assign people in charge of each of the following tasks:
 1. conference rooms reservations (see page 1 and pages 10-16)
 - i. Kresge auditorium (1200 seats)
 - ii. Three additional large auditoriums (200-400 seats) for parallel sessions that are closest to each other to allow people easily go between them.
 - iii. poster sessions location
 2. dorm rooms reservations - as many as possible at MIT (will not know until March 2020 how many rooms!), but also at other local universities (BU – contract for block and guaranteed minimum, have to pay if minimum is not met)
 3. negotiation of lower rates and reservation of hotel rooms (through MIT Conference Services Office?)
 4. conference web site
 5. conference logo
 6. registration: fee structure, methods of payment (through MIT Conference Services Office)
 7. conference advertisement methods
 8. welcome reception before the conference
 9. banquet - preferentially at a nice off campus location (e.g. Isabella Steward Garden Museum, Harvard's Annenberg Hal, of similar) May need to arrange transportation
 10. lunch options, coffee breaks
 11. competitions, fun social/scientific events - design (soft robotics) competition, Soft Olympiad from regional teams, cooking, cosmetics, public events
 12. A/V equipment, sound experts
 13. poster boards, pins – poster sessions Chair
 14. job/career fair for both academic and industrial track in soft matter
 15. panel discussion on future of soft matter – coordinate with program committee
 16. short course for graduate students (and industrial participants?) before the conference – coordinate with program committee
 17. industrial contacts - for conference support and participation in the conference (both equipment exhibits and posters; potential industrial speakers need to be coordinated with program committee.
 18. proposals to NSF (there are several divisions related to soft matter), NIH, DOE, ... to partially support the conference
 19. contact MIT departments for partial support
 20. fundraising at local universities (Harvard, Brandeis, BU, BC, Northeastern, Tufts, ...)
 21. fundraising from government agencies (NSF, NIH, DOE, etc.)
 22. Equipment exhibits by companies/sponsors
 23. organizing excursions, tours for accompanying people, childcare options, ...

Program committee members for ISMC 2020 (June 29 – July 2)

- 1-5 American sub-unit of WG-15
6. A representative from ISMC 2021 (Asia – Hajime Tanaka to nominate)
7. A representative from ISMC 2019 (Europe –Gerhard Gompper to nominate)
8. A representative from local organizing committee (MIT)
9. A representative from the Council of Soft-Matter-Related **Professional Organizations** APS (GSOFT, DBIO, DPOLY, GSNP, DFD, ...), ACS (Colloidal, POLY, PMSE, ...), MRS, AIChE, Rheology, ...
10. Representative the Advisory Board Council of **Regional** Soft Matter Organizations
11. A representative from the Advisory Board **Industrial** Council
12. A representative from the Advisory Board Council of **American Countries** (Mexico, Brazil, Canada, ...)

Advisory Board

(organize a meeting at the American ISMC conference possibly with lunch or dinner) – see a draft of the letter to I on page 5)

- I. Council of Soft-Matter-Related **Professional Organizations** (Biophysical, MRS, AIChE, Rheology, Adhesion, APS, ACS, ...); Representatives from IUPAP Commissions C3 (statistical physics), C6 (biological physics), C10 (structure & dynamics of condensed matter), C20 (computational physics); Representatives from IUPAC Divisions (Physical & Biophysical, Polymer, Colloids)
- II. Council of US **Regional** Soft Matter Organizations. Geographic representatives from regional soft matter organizations (New England Complex Fluids, New York, Mid-Atlantic, Virginia, Triangle, Atlanta, Chicago, California, ...)
- III. **Industrial** Council (Dow, Exxon, Cabot, L’Oreal, DuPont, BASF, Unilever, P&G, Mitsubishi Chemical, Merk, JSOL/J-OCTA, Toray, AGC, Hosokawa Micron, ...)
- IV. Council of **American Countries** (Mexico, Brazil, Canada, ...)

Job description of the program committee

Designing the structure and topics of the sessions and selecting speakers.

Decide whether invited speakers will be selected from contributed abstracts. If so, then does the program committee do the selection, or is there a special, ad hoc selection committee?

In Rome, there was a committee of 10 - 12 that had expertise in the ~16 scientific topical sessions that did the selection of contributed talks. It was not involved in the selection of the plenary talks, just the contributed ones.

If we decide to go with a model of ~8 plenary, ~50 keynote and ~ 70 invited talks (both directly and from posters) the hardest task would be to select topics for 2-hour-long sessions (either 2 keynote + 3 invited or 5 keynote) or 1-hour-long sessions (2 keynote talks) that are interesting enough to attract people from other areas of soft matter to attend.

Can we form a ~12 member program committee with the expertise in all scientific topics of soft matter that will design the whole program all ~ 24 scientific sessions. Alternatively, we could have several program committees with complementary expertise in different scientific areas of soft matter, but this complicates the organization.

Selecting ~8 plenary speakers could either be a separate task for a subgroup of program committee or a task of the whole program committee. Alternatively, plenary speakers can also be selected by 14 members of WG-15 and approved by the program committee (we need to ensure coherence of the program).

Job description of the local organizing committee (see to do list on page 2 for details)

1. reserving rooms for plenary & parallel sessions, posters, lunches, etc.
2. arranging for equipment for lectures and poster sessions
3. dorm rooms reservations - as many as possible at MIT, but also at other local universities (BU, ...)
4. negotiation of lower rates and reservation of hotel rooms (this could be done through MIT Conference Services Office)
5. industrial contacts - for conference support and participation in the conference (both equipment exhibits and posters; potential industrial speakers need to be coordinated with program committee).
6. proposals to NSF (there are several divisions related to soft matter), NIH, DOE, ... to partially support the conference
7. contact MIT departments for partial support
8. fundraising at other local universities (Harvard, Brandeis, BU, BC, Northeastern, ...)
9. organizing banquet - preferentially at a nice location off campus (e.g. Isabella Steward Garden Museum, Harvard Annenberg Hall, of similar) arranging for transportation
10. organizing a short course before the conference in consultation with the program committee
11. potentially job/career fair for both academic and industrial track in soft matter, publication fair with editors
12. organizing excursions, tours for accompanying people, excursions, childcare options, ...
13. designing and building a website for the meeting, designing a logo for the meeting (in consultation with the program committee)
14. running registration, budget accounting
15. advertising the meeting (who controls the distribution lists?)
16. fun social/scientific events - design (soft robotics) competition, Soft Olympiad from regional teams, cooking, cosmetics, public events

Job description of the advisory committee

1. Developing ideas/proposals with topics for scientific sessions and suggesting them (along with names of potential speakers) to the program committee
2. Developing ideas for other events at the conference - roundtable discussions, forums on future directions of soft matter including life and AI, funding, international and cross-country collaborations
3. To solicit and discuss proposals of future American ISMC 2023. It would be great to announce the next meeting at the ISMC 2020.
4. Council of US regional soft matter organizations to discuss coordination and exchange between regional meeting as well as developing proposals for the ISMC2023.
5. Industrial council to design a possible roundtable on basic research for industry: what will in the future replace Bell, Exxon, labs of the past? Nature of jobs for students nature of research industrial.
6. What other functions would be good to charge Advisory Board with if we are considering this to be the beginning of the new society?
7. Should we contact editors of the relevant journals asking them for suggestions of topics, inviting them to the conference and, possibly, organizing an event related to publishing (besides poster prizes)?

To: GSOF Chair

I am writing on behalf of the International Union of Pure and Applied Physics (IUPAP) Working Group on Soft Matter (WG-15). We are beginning to build an advisory board of the American Unit of IUPAP WG-15 and would like to partner with your organization in order to enhance connectivity and strengthen the soft matter community.

One of the mandates of our working group is the organization of an International Soft Matter Conference (ICSM), which rotates every 3 years to different geographic regions (Europe-Africa, the Americas, and Asia-Pacific). We have scheduled the 2020 meeting to be held in the US, at the MIT campus during the week of June 29 – July 3.

The tasks of the advisory board include developing ideas/proposals with topics for scientific sessions of ISMC 2020 and suggesting them along with names of potential speakers to the program committee as well as developing ideas for other events at the conference - roundtable discussions, forums and other activities.

Would you or a representative from your organization consider joining the advisory board of the American Unit of IUPAP WG-15? We expect this would require a minimum of your time, perhaps 1-2 conference calls and a few emails.

Sincerely,

Michael Rubinstein

IUPAP WG-15 webpage: <http://iupap.org/working-groups/wg15-soft-matter/>.

ISMC2016 Conference structure

5 days: 3 full days + 2 half days = 4 equivalent full days

2 time slots per day * 4 days = 8 time slots → 5 two-hour and 3 one hour slots = 13 hours total

4 parallel sessions * 8 time slots = 32 sessions with 13*4=52 total hours plus 9 plenary

Proposed ISMC2020 Conference structure

If we restrict to 3 parallel sessions * 8 time slots = 24 sessions with 24*2 hours = 48 hours plus 8 plenary

For each non-plenary session we can have either 4 half-hour invited talk or two half-hour keynote talks three 20-minute invited talks with total four or five speakers

Thus we can have ~100-130 speakers including plenary, keynote and invited).

Subjects covered at ISMC2016

(5 days: 3 full days + 2 half days = 4 equivalent full days)

(2 time slots per day * 4 days = 8 time slots – 5 two-hour and 3 one-hour slots = 13 hours total)

If we have 4 parallel sessions * 8 time slots = 32 sessions with 13 hours*4 days=52 total hours plus 9 plenary).

If we restrict to 3 parallel sessions * 8 time slots = 24 sessions with 24*2 = 48 hours plus 8 plenary).

For each non-plenary session we can have either 4 half-hour invited talk or two half-hour keynote talks and three 20-minute invited talks with total four or five speakers). Thus we can have ~100-130 speakers including plenary, keynote and invited).

Need to carefully select topics/speakers for ~24 sessions and ~8 plenary talks. Solicit ideas from the advisory board.

Program committee selects and assembles the optimal subset of sessions/plenary talks in consultation with a local committee to fit the program schedule.

32 sessions of ISMC2016

Note that ~ half of them are repeats (marked in matching colors)

Session 1 Dynamical Processes in Complex Fluids

Session 2 **Functional** Soft Materials

Session 3 Biophysics

Session 4 Microfluidics and Interfacial Phenomena

Session 5 Soft Materials and Self Assembly

Session 6 Polymers

Session 7 Active Matter

Session 8 Rheology

Session 9 Colloids

Session 10 Rheology

Session 11 **Functional Materials** and Interfaces

Session 12 Biomaterials and Biopolymers

Session 13 Colloids

Session 14 Dynamical processes in complex fluids

Session 15 Soft glasses

Session 16 Biomaterials and Biomembranes

Session 17 Polymers and Colloids
Session 18 Self Assembly
Session 19 Active Matter
Session 20 Microfluidics and Interfacial Phenomena
Session 21 Colloids
Session 22 Dynamical Processes in Complex Fluids
Session 23 Self Assembly
Session 24 Soft Materials
Session 25 Polymers and Colloids
Session 26 Self Assembly
Session 27 Biophysics
Session 28 Soft Materials
Session 29 Polymers and Colloids
Session 30 Dynamical Processes in Complex Fluids
Session 31 Biophysics and Biomaterials
Session 32 Liquid Crystals

The ISMC 2019 Conference is organized around the following topics:

Active Soft Matter

Natural and synthetic swimmers, active gels, growing cell colonies, etc.

[Hartmut Löwen \(Düsseldorf\)](#): Optimal navigation strategies of active colloids in complex environment

[Eric Clément \(ESPCI, Paris\)](#): Spontaneous and driven active matter flows

Arrested Soft Matter

Colloidal and polymer glasses, gels and networks, associative and composite systems with slow dynamics, quiescent and under flow.

[Emanuela Del Gado \(Georgetwon\)](#): Rheology of arrested soft matter

[Paddy Royall \(Bristol\)](#): Towards an Understanding of the Glass Transition? Insights from Experiment and Simulation

Colloidal and Granular Soft Matter

Synthesis, structure, dynamics of particulate systems, wet or dry, and analogies between the two classes of materials

[Stefano Sacanna \(New York University\)](#):

[Joris Sprakel \(Wageningen\)](#): Law and Disorder: The unusual behaviour of ultraweak crystals

Interfacial Soft Matter

Surfactants, emulsions (including Pickering emulsions), membranes, films (on substrates and free-standing)

[Daniela Kraft \(Leiden\)](#): Lipid phase separation in curved geometries: from geometric pinning to antimixing

[Ray Dagastine \(Melbourne\)](#): Growing and shrinking bubbles, enhanced Ostwald ripening via mass transport in nanometer thick films

Living Soft Matter

Biomolecules, cells, tissue engineering, interfacing synthetic soft matter and tissues

[Eric Dufresne \(ETH, Zürich\)](#): Phase-separation in an elastic matrix: from living cells to synthetic materials

Making and Measuring Soft Matter

New methods and materials, including single-molecule studies

Matt Lynch (Proctor & Gamble, Cincinnati): Revealing Processability of Structured Fluids by Microfluidics
[Lorna Dougan \(Leeds\)](#): Hierarchical biomechanics: from single folded proteins to cross-linked protein networks

Polymeric Soft Matter

Synthesis, structure, dynamics, properties of homogeneous, heterogeneous, biological, liquid crystalline and crystalline polymer systems

[Friederike Schmid \(Mainz\)](#): Why "bad" is "good": Polydispersity in polymeric nanostructures

[Ralph Colby \(Penn State\)](#): Flow-Induced Crystallization of Engineering Thermoplastics

Processing & Stressed Soft Matter

Rheology, microfluidics, flow in complex geometries, additive manufacturing; Bonding, buckling, fracture, tackiness

[Guillaume Ovarlez \(Solvay/Bordeaux\)](#): From soft matter rheology to civil engineering

[Al Crosby \(Massachusetts Amherst\)](#): Cavitation and Puncture: Crack Nucleation in Soft Solids

Self-assembled Soft Matter

Synthetic and biomimetic, supramolecular assemblies

[Alison Sweeney \(Pennsylvania\)](#)

[Sabine Laschat \(Stuttgart\)](#): Ionic Liquid Crystals: Controlling Self-Assembly and Function through Charge and Symmetry

BUDGET

Expected total attendees

700

ISMC 2020 6/29-7/2/2020- Costs are estimated

	per unit/hr.	Units	Total
Facilities Use			
See Attached meeting room list/possible uses & capacities	44,475	1	44,475
		Est. Total	\$ 44,475.00
Food and Beverage			
Samberg Conference Center Coffee break with snack (4 days/80%) * <i>Required F&B minimum is \$29,256</i>	22	2240	49,280
Sala Poster Coffee Breaks with snack (4 days/80%)	20	2240	44,800
Welcome Reception (light, with beer/wine for 85%)	70	595	41,650
West Campus Linens for food service, registration	5,187	1	5,187
		Est. Total	\$ 140,917.00
Registration and Coordination			
Event Registration and Coordination	52	700	36,400
		Est. Total	\$ 36,400.00
Presentation Technology & Staging			
AV (Estimate only, space/final agenda pending)	33,000	1	33,000
		Est. Total	\$ 33,000.00
Miscellaneous			
Electricians for Kresge Lobby	500	1	500
Grounds crew for trash removal	500	1	500
Furniture Rental/Tables/Reg Counters	3,600	1	3,600
Conference Bag/Giveaway (TBD)	15	700	10,500
Security details for 1 reception and one overnight for registration	95	20	1,900
Poster display panels (based on 4 posters per double-sided board)	112	17	1,904
Movers	1,000	1	1,000
Liability Insurance Coverage	500	1	500
		Est. Total	\$ 20,404.00
		Est. Grand Total	\$275,196.00
		Est. Per person	\$393.14
Bank fees - 5% per each credit card transactions		Est. Credit card fee	\$19.66
(transaction = charge or a refund)		Total Est.	\$412.79
Per Person			

Banquet on Spirit of Boston @ \$150 per person paid by attendee (includes transportation)

OTHER possible costs: Publications (Website, program, proceedings); speaker travel; awards, etc...

Start date	End Date	Event Start	Event End	Building	Room	Use	Lecture Capacity	Current Hourly Rental	Multi-day
6/28/20	7/2/20	7:00 AM	11:00 PM	Kresge Complex (W16)	Kresge Lobby	Registration/coffee	N/A*	N/A*	N/A*
6/29/20	7/2/20	7:00 AM	11:00 PM	Kresge Complex (W16)	Kresge Aud (W16)	Plenary/Breakout	1061	\$ 284.00	\$ 7,589.00
6/29/20	7/2/20	7:00 AM	11:30 PM	Tang Center (E51)	Wong Auditorium/Ting Foyer	Breakout	289	\$ 284.00	\$ 7,589.00
6/29/20	7/2/20	8:00 AM	5:00 PM	Samberg Conference Center (E52)	Salon M, I, T, East, West, Dining Room 3,4,5,6 & Foyer Space	Breakout/Coffee	800	N/A	\$ 19,822.00
6/29/20	7/2/20	7:00 AM	11:00 PM	Stratton Student Ctr (Bldg. W20)	Sala De Puerto Rico^	Posters/coffee		\$ 284.00	\$ 7,589.00
6/29/20	7/2/20	7:00 AM	11:00 PM	Stratton Student Ctr (Bldg. W20)	West Lounge^	Posters/coffee		\$ 70.00	\$ 1,886.00

\$ 44.

Additional spaces currently on hold for other possible scenarios (cost not included on space estimates in draft budget)

6/29/20	7/2/20	7:00 AM	11:00 PM	Stratton Student Ctr (Bldg. W20)	Pdrs 1&2	Breakout	40	\$ 70.00	\$ 1,886.00
6/29/20	7/2/20	7:00 AM	11:00 PM	Stratton Student Ctr (Bldg. W20)	Twenty Chimneys	Breakout	150	\$ 70.00	\$ 1,886.00
6/29/20	7/2/20	7:00 AM	11:00 PM	Stratton Student Ctr (Bldg. W20)	Room 407	Breakout	130	\$ 70.00	\$ 1,886.00
6/29/20	7/2/20	7:00 AM	11:00 PM	Stratton Student Ctr (Bldg. W20)	Room 491	Breakout	130	\$ 70.00	\$ 1,886.00
6/29/20	7/2/20	7:00 AM	11:00 PM	Kresge Complex (W16)	Rehearsal Room A	Breakout	75	\$ 70.00	\$ 1,886.00
6/29/20	7/2/20	7:00 AM	11:00 PM	Kresge Complex (W16)	Rehearsal Room B	Breakout	75	\$ 70.00	\$ 1,886.00
6/29/20	7/2/20	7:00 AM	11:00 PM	Stratton Student Ctr (Bldg. W20)	Stratton Balcony	Possible breaks	N/A**	N/A**	N/A**
6/28/20	7/2/20	7:30 AM	11:00 PM	Stata (Bldg.32)	Vest Student Street Combo	Possible poster space if lecture hall confirmed		\$ 168.00	\$ 4,515.00
6/28/20	7/2/20	7:30 AM	11:00 PM	Stata (Bldg.32)	TSMC Lobby	Possible poster space if lecture hall confirmed		\$ 70.00	\$ 1,886.00
6/26/20	7/3/20	7:00 PM	11:30 PM	CAC Outdoor Spaces	Kresge Oval	Tent setup		\$ 70.00	\$ 2,285.00
6/28/20	7/2/20	7:00 AM	11:30 PM	Lobby 13	Lobby 13	Possible poster space if lecture hall confirmed		\$ 284.00	\$ 7,589.00
6/29/20	7/2/20	7:00 AM	11:00 PM	Kresge Complex (W16)	Little Theatre	Breakout	6/29/00	\$ 284.00	\$ 7,589.00

Notes:

All prices above are current and subject to change each year on July 1

For large spaces (\$284) , There is an additional 2 hours added to total rental cost to cover time needed by facility to setup/breakdown space. For mid-level spaces (\$70), there is an hour added to rental cost.

Published capacities may vary depending on AV or any additional setup needed in the space. Final capacities will be determined upon setup needs.

* included with rental of Kresge Main

** included with rental of Mezzanine or Twenty Chimneys

^ Sala de Puerto Rio and West Lounge are adjoining and would be used in combination for poster session As of 3/19/2019

Map of MIT site with distances between Kresge Complex (W16) and Student Center (W20) on West Campus and Samberg Center (E52) and Tang Center (E51) on East Campus



Stratton Student Center (W20)

[First Floor](#) | [Second Floor](#) | [Third Floor](#) | [Fourth Floor](#)

Below are descriptions of Student Center facilities presented by floors. Please refer to the floor diagrams on opposite pages for additional specifics regarding room features.

First Floor

Stratton Student Center Lobby

Promotional tables in the lobby are available Monday through Friday between the hours of 9AM and 5PM for student organizations and departments. Vendors, selling products and services, can apply to reserve a vendor table during the day. Occasionally, groups of tables may be reserved for events of general interest to the MIT community, however, special permission of the CAC must be obtained.

Second Floor

Lobdell Dining Hall (W20-208)

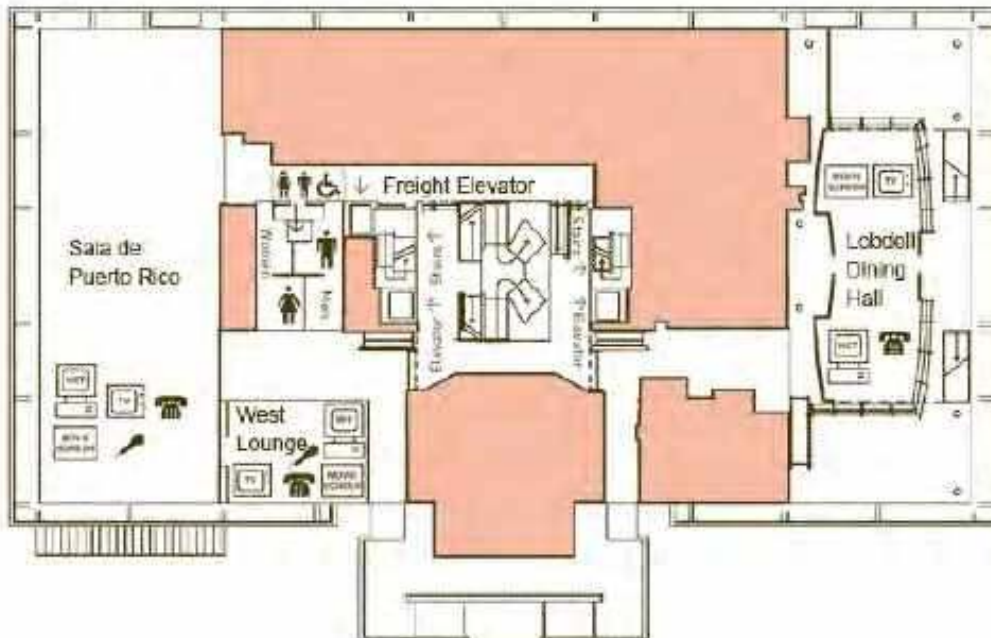
This facility is available Monday through Friday after 4:30 PM and Saturday and Sunday all day. It is generally used for parties, dances, movies, and banquets. If Lobdell is not reserved, the Lobdell balconies can be reserved separately (see their description under the Third Floor section). This room is equipped with a movie screen. Student groups are required to reset the room to its dining configuration after their events; a diagram is posted in Lobdell, and a CAC manager can provide a copy of the diagram if needed. If the reset is not done, a fee of \$250.00 will be charged to the student group's account.

Sala de Puerto Rico (W20-202)

This is a multipurpose room with a wooden floor which is ideal for events such as parties, dances, large banquets and receptions, career fairs, lectures, and limited theatrical productions. This room is equipped with a movie screen, adjustable lighting, and theatrical lighting.

West Lounge (W20-201)

West Lounge has a laminate floor and double doors which lead into the Sala de Puerto Rico; therefore, it is often used to support large functions in the Sala (e.g. as a coat room or dressing room). It is also available to be used separately for luncheons, receptions, rehearsals, and meetings. West Lounge is equipped with a movie screen.



Third Floor

Twenty Chimneys (W20-306) and Mezzanine Lounge (W20-307)

These rooms are virtually identical and located across the hall from one another. Each is ideal for banquets, meetings, and lectures and may be used together and/or in conjunction with the Stratton Balcony for an effective workshop series or small conference site. Because these rooms are carpeted, no dancing is permitted. Twenty Chimneys is also adjacent to the South Lobdell Balcony which can sometimes be used in conjunction with a large event. Each room is equipped with a movie screen.

Stratton Balcony

This is the open lounge area located between Twenty Chimneys and the Mezzanine Lounge. It can be reserved in conjunction with an event in either Twenty Chimneys or the Mezzanine Lounge. It is ideal for registration, buffet setups, coffee service, and receptions. No alcohol is permitted.

North (W20-305N) and South Lobdell (W20-305S) Balconies

Each of the balconies of Lobdell Dining Hall has a collapsible wall which is used to separate it from the Dining Hall. Each can be scheduled for events when Lobdell Court is not in operation. The tables and chairs on the balconies cannot be removed but may be moved against the wall or used in conjunction with an event. Each balcony is ideal for banquets.

Private Dining Room #1 (W20-301) and #2 (W20-302) (PDRs)

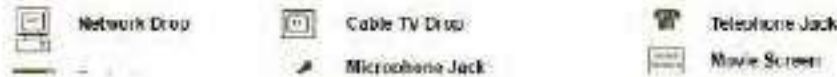
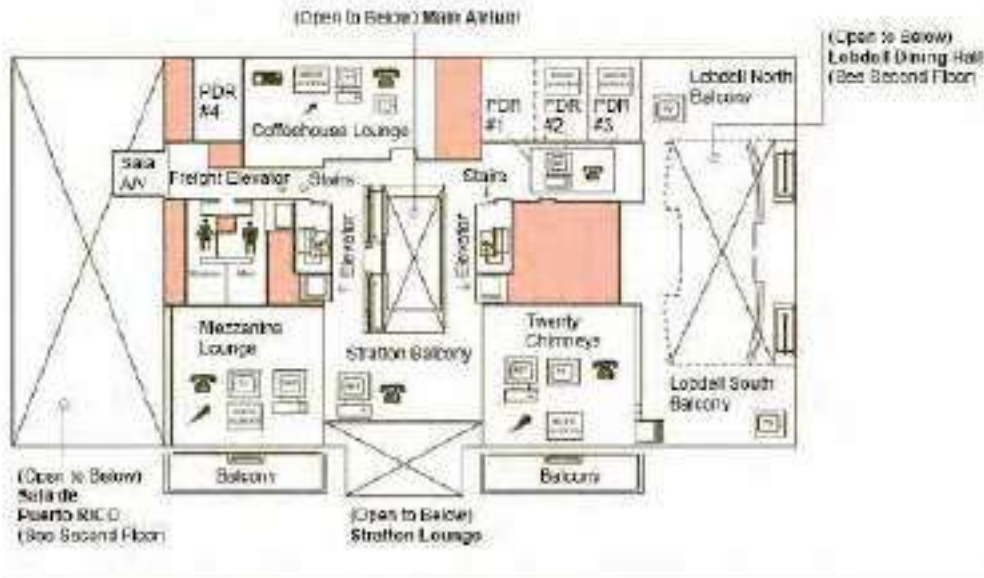
Each room is appropriate for small meetings and small dining functions. Only PDR 2 has a movie screen. In addition, there is a collapsible wall between these two rooms which can be opened to accommodate larger events. Used together as one room, PDRs 1 & 2 are ideal for meetings, lectures, and receptions. They can also be used as a support room for large events in Twenty Chimneys, the Mezzanine Lounge, and Lobdell. Because the rooms are carpeted, no dancing is permitted.

Private Dining Room #3 (W20-303) and #4 (W20-304)

These rooms have a permanent boardroom style setup consisting of one large conference table with 18 chairs around it. PDR #3 has a movie screen. PDR #4 has a whiteboard.

Coffeehouse Lounge (W20-308)

This room is a multi-purpose room. The Lounge is available for day and weekend events to all recognized MIT groups, and features a sound system, projector, and program media. On weekday evenings during the academic term, the space is available to student groups who are hosting events open to the entire MIT Community; these events require a special booking process, so get in touch with CAO for more information.



Fourth Floor

Room 400 (W20-400)

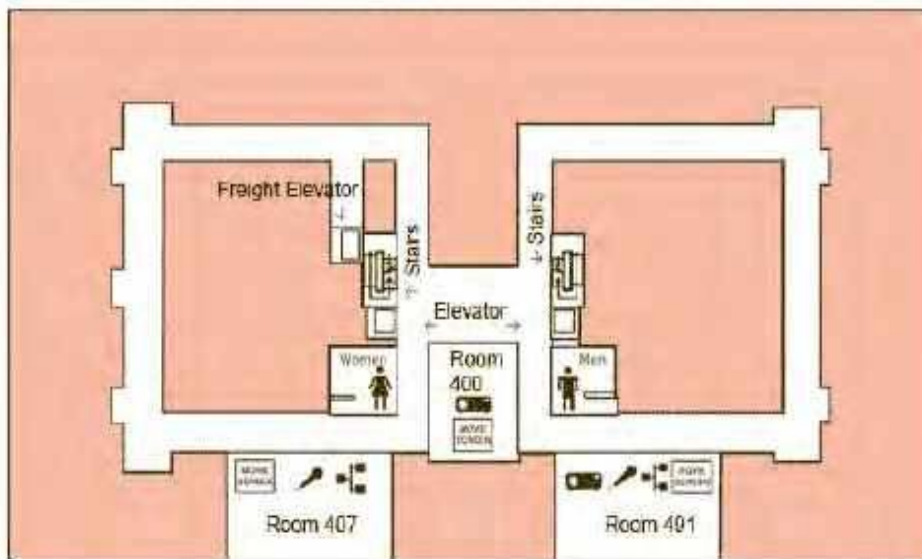
This windowless room in the middle of the fourth floor has a permanent u-shape set up with additional stadium seating in the rear. There is both a movie screen and a white board in the room. The room is equipped with a projector. Alcohol is not permitted in Room 400. During the academic year this room is reserved through the Undergraduate Association (W20-401, 253-2896) for events Monday-Friday after 5PM and on weekends. Contact CAC for use of Room 400 before 5PM Monday through Friday and at all times during the summer months.

Room 407 (W20-407)

The room has a tiled floor, a chalkboard, movie screen, and coat hooks. The room is equipped with a sound system, projector, and program media. The room is ideal for meetings; lectures; and music, dance, and drama rehearsals. Alcohol is not permitted.

Room 491 (W20-491)

The room has a tiled floor, a chalkboard, movie screen, and coat hooks. Room features a built in sound system, projector, and program media. The room is ideal for meetings; lectures; and music, dance, and drama rehearsals. Alcohol is not permitted.



Movie Screen



Projector



Microphone Jack
(limited capability)



Network and
Cable jack

Samberg Conference Center, Chang Building (E52)

The Samberg Conference Center, located on the sixth and seventh floors of the Chang Building (E52), is available for bookings by members of the MIT community. For information and to enquire about availability, please visit the Samberg Conference Center website (sambergconferencecenter.mit.edu). Please note that in the below chart the numbers for seated arrangements (rounds, crescent rounds, etc.) reflect plated meal maximums; other services/furniture (such as with a buffet set-up) will lower those maximums.

6th Floor

	Rounds	Crescent Rounds	Classroom	Theater	Reception	U-Shape	Hollow Sq.	Conference Style
Dining Room 1	–	–	–	–	–	–	–	Fixed for 16
Dining Room 2	40	22	–	45	50	15	15	15
Dining Room 3	80	50	40	100	100	30	25	25
Dining Room 4	90	50	50	120	125	35	30	30
Dining Room 3 & 4 Combined	150	100	75	200	200	60	45	50
Dining Room 5	130	60	50	160	150	40	30	35
Dining Room 6	60	30	25	60	65	18	15	15
Dining Room 5 & 6 Combined	150	90	75	200	200	60	45	45

7th Floor

	Rounds	Crescent Rounds	Classroom	Theater	Reception	U-Shape	Hollow Sq.	Conference Style
Salon West	60	30	30	60	75	20	18	18
Salon M	100	60	45	125	120	35	25	25
Salon I	125	70	60	150	150	40	35	35
Salon T	100	60	45	125	120	35	25	25
Salon MIT Combined	325	180	150	400	400	100	80	80
Salon East	30	–	–	45	45	–	10	10

Kresge Auditorium (W16)

Kresge is fully-accessible.

Note: While many of the spaces in Kresge may be used to support events in other Kresge spaces, each facility MUST be reserved SEPARATELY.

Main Kresge (W16-109)

This large auditorium seats a maximum of 1215 people, although only 1132 seats are available when the stage is extended over the pit seating section. It is used for concerts, lectures, conferences, plays, and other major events. No food or beverage is permitted in the auditorium. Special theatrical lighting can be arranged by contacting E33, web.mit.edu/e33, or by contacting CAC for contact information on outside lighting vendors. The use of musical instruments is subject to charge and permission must be obtained at least three (3) weeks in advance from the Music Department (4-246, 253-3210). There is a movie screen. MIT Audio-Visual services are required for access to the audio booth and the sound system and projection controlled by the booth. CAC can provide a small self-help audio system with one microphone. If your event requires additional audio-visual services, notify MIT Audio-Visual (4-017, 253-2808) after you reserve the event space.

Little Theatre (W16-035)

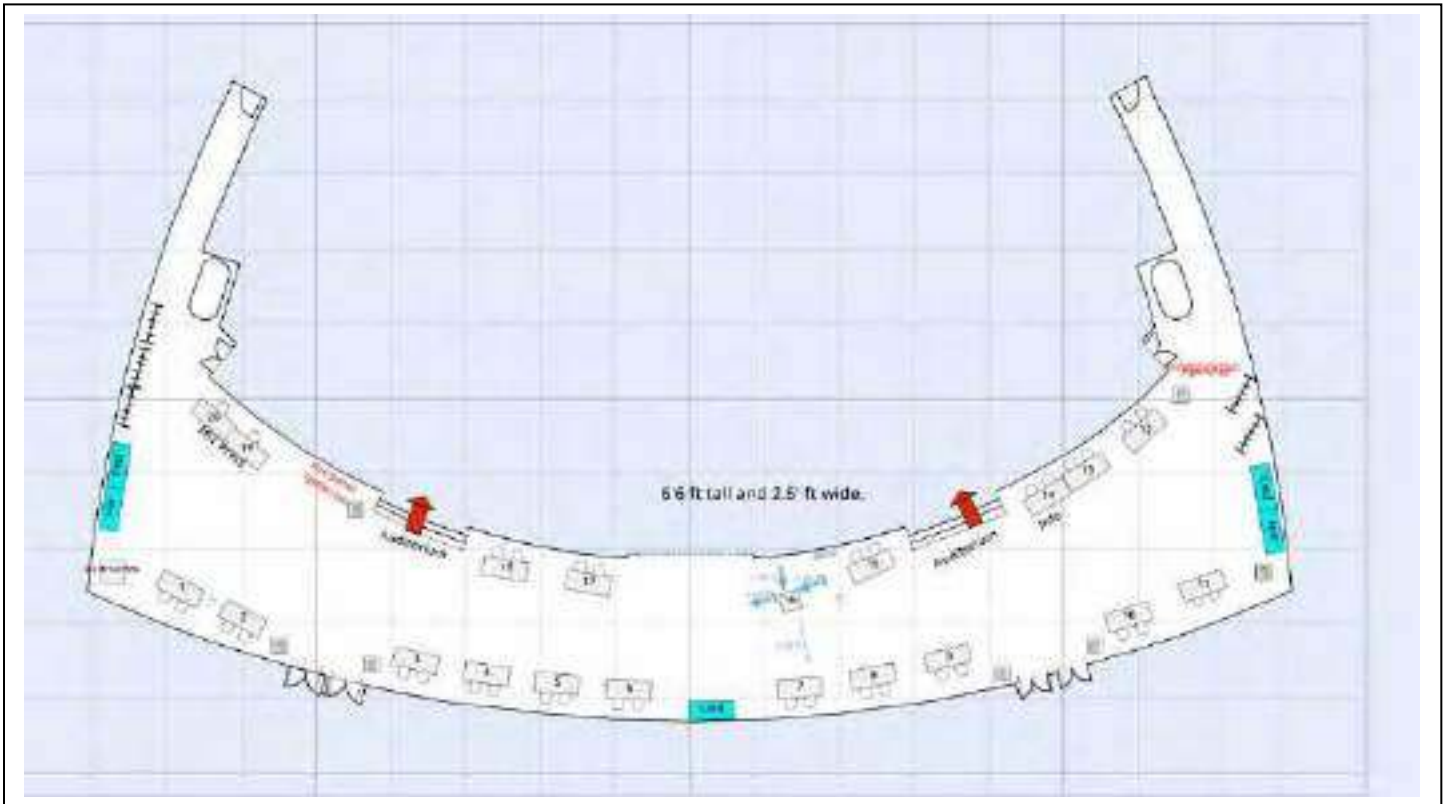
This small theater seats a maximum of 194 with the pits seats in place and 200 with the pits seats out. As the Institute's only legitimate theater, it is generally used for theatrical performances and conferences. No food or beverage is permitted in the theater. There is a movie screen. Theatrical lighting and audio equipment are available for use by approved personnel.

Kresge Lobby (W16-100LA)

This is the lobby outside of Main Kresge. It can be used as a reception or registration space for events in Main Kresge with 48 hour notice. It is also sometimes possible to reserve the lobby separately when there are no conflicting events in Main Kresge auditorium or the Little Theatre. Alcohol can be served in Kresge Lobby, but cannot be openly served without additional plans in place, if other events are occurring in the building.

Rehearsal Rooms A (W16-033) and B (W16-030)

These windowless rooms are designed for musical and theatrical rehearsals, as well as small meetings. They have hardwood sprung floors and variable lighting. Each room has a whiteboard, a movie screen, and a Smart TV. They can be used in conjunction with events in Main Kresge and the Little Theatre as well as press rooms, coat rooms, break-out rooms, dressing rooms, etc.



a diagram from a conference that puts **ONLY** their sponsors in the lobby. Their registration and most of their coffee tables are in a tent on the oval just outside the lobby.

If we do registration, coffee and sponsors inside the lobby, we are guessing 8 sponsor tables would fit. Note that the lobby is quite full with about 400 people during coffee breaks. Larger groups tend to spill outside onto the brick and lawn during breaks when there is no tent option which is pleasant enough in good weather.

Men's (W16-010) and Women's (W16-021) Dressing Rooms

These may be used as dressing rooms for performers and guest speakers in conjunction with events in Main Kresge and Little Theatre. Both have showers.

Green Room

This room is to be used in conjunction with events in Kresge. Has a private bathroom.

Tang Center (E51)

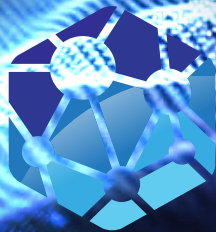
The Tang Center is located at 70 Memorial Drive. Classrooms in the Tang Center are reserved by Sloan Educational Services (E52-101, 253-1510) for Sloan School groups. For non-Sloan groups, please contact the Schedules Office (5-111, 253-4788). The Wong Auditorium and the Ting Foyer can be reserved by contacting CAC (W20-500, 253-3913).

Wong Auditorium (E51-115)

The Wong Auditorium can serve as the ideal location for lectures and symposiums. This auditorium has a capacity of 291 with 3 removable seats at the front of the auditorium. Within the Auditorium there is an audio amplification system with surround sound capability, video and audio taping capability, VCR, slide projector, and a large screen. Audio taping is provided by Academic Media Production Services (AMPS) 253-7603. For all other audio-visual needs, please contact the MIT AV Department 253-2808.

Ting Foyer

Ting Foyer is the area directly outside Wong Auditorium. It can be used as a reception or registration space for events in Wong Auditorium. It is also sometimes possible to reserve the lobby separately when there are no conflicting events in Wong Auditorium, with a 48 hour notice.



ISMCM2021

The 7th International Soft Matter Conference

Date:

12th-17th December 2021

Venue:

**Osaka International Convention Center
Osaka, Japan**

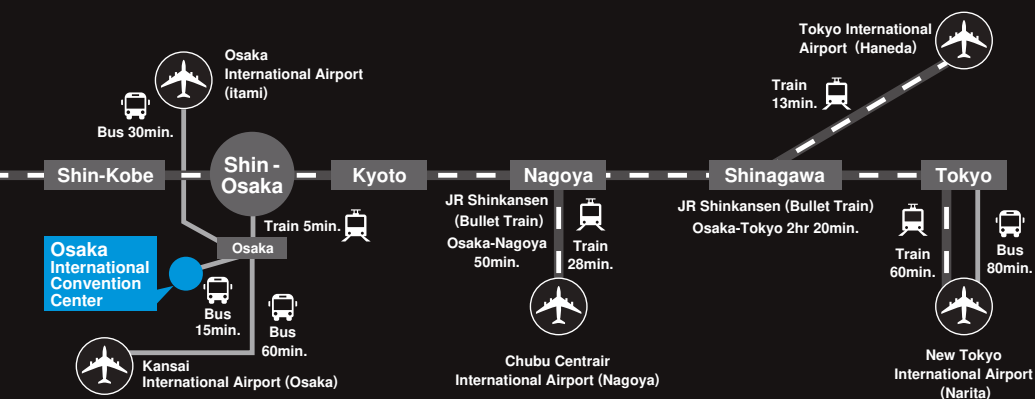
Organizing Committee:

Ryoichi Yamamoto, Kyoto University (Chair)
Hajime Tanaka, University of Tokyo (Chair, honorary)
Takeaki Araki, Kyoto University
Masayuki Imai, Tohoku University
Toshihiro Kawakatsu, Tohoku University
Hirotsugu Kikuchi, Kyushu University
Shigeyuki Komura, Tokyo Metropolitan University
Kunimasa Miyazaki, Nagoya University
Takashi Taniguchi, Kyoto University
Jun Yamamoto, Kyoto University

Please visit to conference site (<http://ismc2021.jp>)



ISM C2021



From Kansai International Airport

Approx. 60 minutes to Osaka station by airport limousine bus
15 minutes by Osaka city bus from JR Osaka station.

From Osaka International Airport (Itami Airport)

Approx. 30 minutes to Osaka Station by airport bus
15 minutes by Osaka city bus from JR Osaka station.

From Shin-Osaka Shinkansen (Bullet Train) Station

Approx. 5 minutes to Osaka station by JR local train
15 minutes by Osaka city bus from JR Osaka station.



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