

INTERNATIONAL SOFT MATTER CONFERENCE 3-7 JUNE 2019

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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

Chair, International Programme Committee

Our Sponsors

Soft Matter























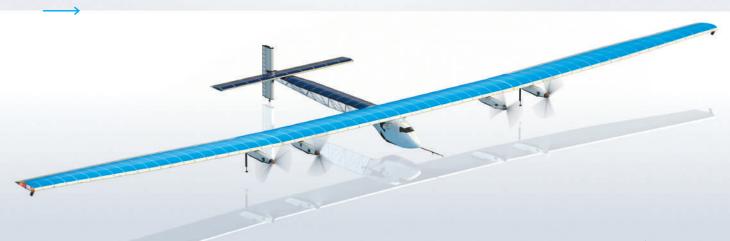






MORE DARING CLEANER FUTURE

SOLAR IMPULSE: WHEN IMAGINATION AND INNOVATIVE CHEMISTRY MAKE THE IMPOSSIBLE POSSIBLE, TOMORROW'S HOPES ARE ACHIEVED TODAY.



ASKING MORE FROM CHEMISTRY

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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

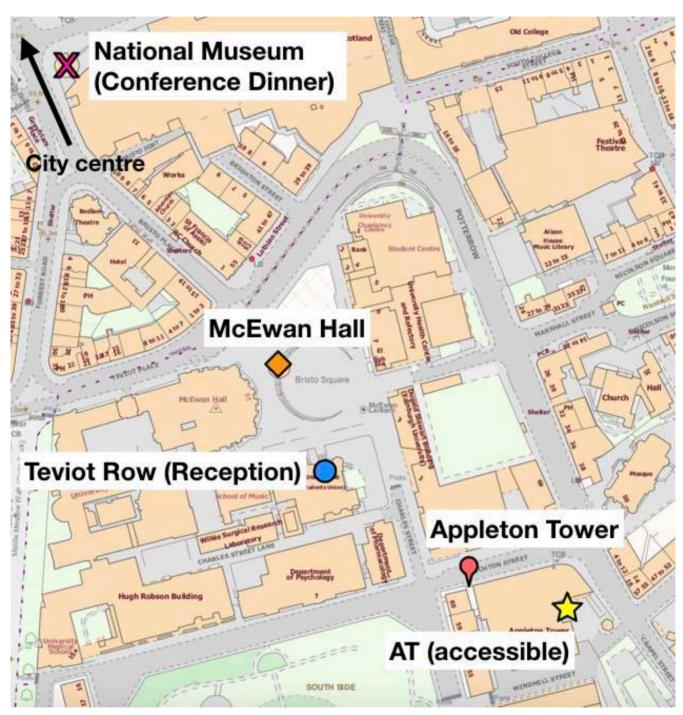
Coffee/tea breaks: **McEwan Hall** and **Appleton Tower** Reception (Monday 3rd June, 7 pm): **Teviot Row House**

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.)

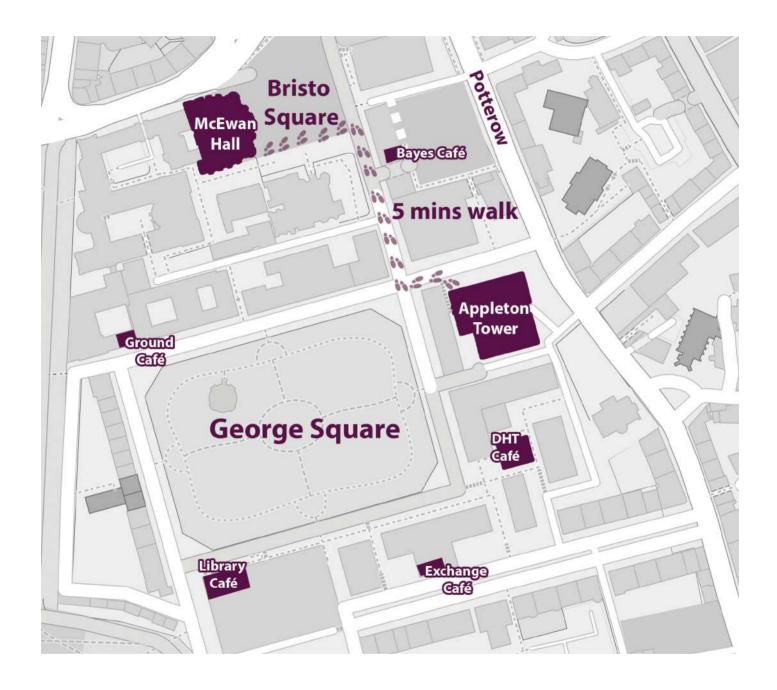
Wireless access

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.





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.

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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 KOOF, 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

<u>Interfacial Soft Matter</u>

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 Magne-

tospirillum 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 CoFe₂O₄@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, Anwesha

11:30 Biomcompatible 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 Con-

centrated 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

 $13:30 {\bf \ Keynote}: \ From \ soft \ matter \ rheology \ to \ civil \ engineering$

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.

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ALVAREZ, Laura	Reconfigurable thermo-responsive active colloids	AC 2
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