Session Program

10–16 Jun 2018

Canadian Association of Physicists

Association canadienne des physiciens et physiciennes

2018 CAP Congress / Congrès de l'ACP 2018

Soft Matter Canada 2018 | Matière molle Canada 2018

Dalhousie University

Saturday 9 June

09:00

Soft Matter Canada 2018 | Matière molle Canada 2018

Session | **Location:** Dalhousie University, Dunn 101 (cap.82) | **Convener:** Andrew Rutenberg

09:15–09:45

A new perspective on the wetting of a solid surface by the drops of an emulsion (I)

Speaker
Arun Ramachandran

09:45–10:00

How molecular crowding controls the spatial organization of biopolymers in a confined space

Speaker
Prof. Bae-Yeun Ha

10:00–10:15

Probing the structure of electrochemically aggregated collagen

Speaker
Kristin Poduska

10:15–10:30

MacSANS: a new Small Angle Neutron Scattering facility at McMaster University

Speaker
Patrick Clancy

10:30–11:00

Coffee Break

11:00–11:30

Morphology of ion-conducting polymers (I)

Speaker
Prof. Barbara Frisken

11:30–12:00

Organelles without borders: How phase transitions functionally organize living cells (I)

Speaker
Prof. Stephanie Weber

12:00–12:30

Quantitatively Accurate Simulations for Block Copolymer Melts (I)

Speaker
Prof. Mark Matsen

12:30–13:30

Lunch

13:30–14:00

Manufacturing Novel Biomaterials by Elongation of Fibers from Highly Viscous Polymer Solutions (I)

Speaker
Dr John Frampton

14:00–14:30 **Collagen fibril’s plastic damage: the rope and tube duality (I)**

Speaker
Laurent Kreplak

14:30–15:00
Three-dimensional soft tunable platforms for control of cell-matrix interactions (I)

Speaker
Prof. Delphine Gourdon

15:00–15:30 **Coffee Break**

15:30–16:00 **Electrochemical gelation of telechelic protein polymers (I)**

Speaker
Prof. James L. Harden

16:00–16:15
Characterization of the structure and function of self-assembling hydrophobin proteins

Speaker
Dr David Langelaan

16:15–16:30
Free energy of a folded semiflexible polymer confined to a nanochannel of various geometries

Speaker
James Polson

16:30–16:45
Folding landscapes of shape-shifting proteins: insights from a 3-letter coarse-grained model

Speaker
Stefan Wallin

17:00–17:02 **Water Models: adventures in parametrization (G)**

Speaker
Prof. Björn Baumeier

17:02–17:04
High-Throughput 3D Neural Cell Culture Analysis Facilitated by Aqueous Two-Phase Systems (G)

Speaker
Kristin Robin Ko

17:04–17:06 **Bioprinting of Three-Dimensional Multicellular Skin Constructs (G)**

Speaker
Ms Rishima Agarwal

17:06–17:08
POS-58 Study of a field-tunable colloid-polymer solution by Shivani Semwal (G)*

17:08–17:10

POS-59 Effect of diffusion of cell lysate in a model polymer, via pulse gradient NMR by Yanitza Trosel Arroyo (G)*

17:10–17:12

POS-60 Polymer dynamics in a gel network: the effect of confinement by Venketesh Thrithamara (G)*

17:12–17:14

POS-68 Stress Relaxation Mechanism of Single Collagen Fibrils and Relaxation Induced Morphological Changes (G)

Speaker
S M Asif Iqbal

17:14–17:16

Multisequence algorithm for coarse-grained biomolecular simulations: Exploring the sequence-structure relationship of proteins (G)

Speaker
Mr Adekunle Aina

17:16–17:18 **Polymorphism of stable collagen fibrils (G)**

Speaker
Samuel Cameron

18:00–19:30 **Dinner**

19:30