
8:15  Registration (on the day)
9:00  Opening Words
9:20  Scientific Sessions

Chairs: Hiroyuki Ohshima

9:20  K1  Keynote: **Staffan Wall**
The Early History of Electrokinetics

9:45  PL1  Plenary: **Hans Lyklema**
Joint Development of Insight into Colloid Stability and Surface Conduction

10:25  Coffee Break

Chairs: Hans Lyklema

10:55  K2  Keynote: **Hiroshi Maeda**
A Historical Overview of the Concept of the Counterion Condensation

11:20  G1  R. Roa, F. Carrique and E. Ruiz–Reina
Electrokinetics of Spherical Particles in Salt–Free Concentrated Suspensions Including Ion Size Effects

11:38  G2  P. Turq, B. Rotenberg, A. Botan, V. Marry, B. Siboulet and J.F. Dufreche
Multiscale Hydrodynamics and Electrokinetics in Clay and Silica Nanopores

11:56  Lunch
Poster Session, Chairs: Takanori Akagi / Sosaku Ichikawa
(Core Time: 13:10–14:10 for odd poster number, 14:10–15:10 for even poster number)
IAB Meeting

Chairs: Theo G.M. van de Ven / Emil Chibowski

15:20  K3  Keynote: **Ehud Yariv**, Ory Schnitzer and Itzchak Frankel
Streaming–Potential Revisited

15:45  G3  Thomas Luxbacher
Streaming Potential and Streaming Current Measurements Elucidate Liquid–on–Solid Adsorption Processes

16:03  G4  M. Iwata, T. Tanaka and K. Fujihara
Electroosmotic Dewatering of Gelatinous Materials

16:21  G5  K. Wojciechowski and K. Linek
Can We Detect Ion–Specificity using Electrokinetic Measurements?
Characterization of NMMO–Reconstituted Cellulosic Materials

16:57  Coffee Break

Chairs: Thomas Luxbacher / Angel V. Delgado

17:20  G7  Constantino Grosse
Extension of a Classic Low Frequency Dielectric Dispersion Theory of Colloidal Suspensions Including Different Ion Valences, Broad Frequency Range, and Stagnant Layer Conductivity

17:38  G8  Claire Chassagne
Electrokinetic Response of Clays: Exact Solutions and Applications

17:56  G9  M.L. Jiménez, F. Mantegazza, L. Fornassari, M.C.D. Mourad and T. Bellini
Electric Birefringence of Gibbsite Platelets

18:14  G10  Peter J. Beltramo and Eric M. Furst
Dielectric Spectroscopy of Colloidal Suspensions Across the Fluid–Crystal Transition

18:32  G11  S. Yagihara, Y. Maruyama, Y. Kishi, R. Kita, N. Shinyashiki and M. Fukuzaki
Dielectric Study on Fractal Water Structures in Dispersion Systems

18:50  Close
Reception
Tuesday, May 22nd – Non-Aquatic System. Hydrophobic Colloid. Microfluidics.

8:30  Registration (on the day)

Chairs: Ko Higashitani / Constantino Grosse

9:00  PL2  Plenary: Thomas W. Healy and Douglas W. Fuerstenau
Surfactant Adsorption: Electrokinetic Demonstrations of the Hydrophobic Effect

9:40  K4  Keynote: Filip Beunis, F. Strubbe, M. Karvar, O. Drobchak, T. Brans and K. Neyts
Inverse Micelles as Charge Carriers in Nonpolar Liquids

10:05 G12  E. Chibowski, L. Holysz and A. Szczes
Some Curious Wetting and Electrokinetic Properties of Cholesterol

10:23 G13  D. Lerche and T. Sobisch
Screening of Total Interaction Energy by in Situ Visualization of Separation Behaviour

10:41  Coffee Break

Chairs: Filip Beunis / Pierre Turq

11:05 G14  Ko Higashitani and Cathy E. McNamee
Molecular–Scale Change in the Surface Properties of Copper and Sillicainpure Water and
High pH Solutions with Time

11:23 G15  A. Zhukov, F. Gareeva, N. Petrova and O. Shenderova
Electrokinetic Properties of Detonation Nanodiamond Agglomerates in Aqueous
Electrolytes Solutions

11:41 G16  Marcelo Lozada–Cassou and Hector Manzanilla–Granados
A New Model for the Stability and Mobility of Finite Colloidal Concentration

11:59 G17  R. Kimura, K. Tsuchiya and Y. Mori
Fabrication of Silica Nanoparticle Arrays by DC Electrophoretic Deposition

12:17  Lunch

Chairs: Hideyuki Sugioka / Carsten Werner

14:10 K5  Keynote: Todd Squires
Induced Charge Electrokinetic Phenomena — Fundamentals, Applications, and Extensions

14:35 G18  Myung–Suk Chun and Kwang Seok Kim
Secondary Microflows in Electro–Osmotic Transport with Hydrodynamic Slippage Effect

14:53 G19  Reghan J. Hill and Aliasghar Mohammadi
Dynamic Electrical Response of Hydrogel–Loaded Microchannels

Experiments on Electrorotation and Dielectrophoresis of Metallic Microparticles

15:29  Coffee Break

Chairs: Todd Squires / Antonio Ramos

15:50 K6  Keynote: Masaki Sano
Fluctuating Dynamics of Active Colloids

16:15 G21  Christian J. C. Biscombe, Malcolm R. Davidson and Dalton J. E. Harvie
Electrokinetic Flow in Parallel Channels: Circuit Modelling for Microfluidics and Membranes

Electroviscous Flow through Microfluidic Constrictions, Bends and Junctions

16:51 G23  Hideyuki Sugioka
Observation of Asymmetrical Reverse Vortex Flow due to Induced–Charge Electro–
Osmosis Around Stacking Structures

17:09 G24  Carsten Werner, Ralf Zimmermann, Dirk Kuckling, Martin Kaufmann and Jérôme F. L. Duval
Charging and Structure of Poly (N-Isopropylacrylamide–co–Carboxyacrylamide) Soft Thin
Films: Insights from Microslit Electrokinetic Experiments and Ellipsometry

17:27 G25  Andriy Yaroshchuk
What Makes a Nano–Channel? A Limiting–Current Criterion

17:45 Close  Shuttle Bus to BQ Hall will Start by 17:50

18:30  BQ  18:50–20:50  Lunch
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<td>ISO Standards 13099–1,2,3 : Methods for Zeta Potential Determination – Parts 1, 2 and 3</td>
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Poster P38 Sosaku Ichikawa, Naoya Iwata and Seigo Sato
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