

## ICBZM 2019 Scientific program

| Time                   | Event                   | Name               | Title  | Name |
|------------------------|-------------------------|--------------------|--|------|
| <b>June 17, Monday</b> |                         |                    |  |      |
| 8:45 - 9:00            | Opening                 |                    |  |      |
| 9:00 - 9:45            | Plenary lecture         | Ishihara, Kazuhiko | Biocompatibility of phosphorylcholine group bearing polymers   |      |
| 9:45 - 10:15           | Keynote invited lecture | Jiang, Shaoyi      | Recent Advances in Zwitterionic Materials  |      |
| 10:15 - 10:45          | Keynote invited lecture | Moroni, Lorenzo    | Engineering Biomaterials to Steer the Foreign Body Response towards Tissue Regeneration                            |      |
| 10:45 - 11:00          | Break                   |                    |  |      |
| 11:00 - 11:30          | Keynote invited lecture | Yuan, Jiayin       | Soft actuators derived from poly(ionic liquid)s  |      |
| 11:30 - 11:50          | Invited lecture         | Steele, Terry      | Zwitterionic, Voltage Initiated Tissue Adhesives   |      |
| 11:50 - 12:10          | Invited lecture         | Smulders, Maarten  | Romantic surfaces with a bead – functional antifouling polymer brushes on polymer beads                            |      |
| 12:10 - 13:00          | Lunch                   |                    |  |      |
| 13:00 - 13:30          | Keynote invited lecture | Liu, Danqing       | Coating as two-dimensional soft robotics   |      |
| 13:30 - 13:50          | Invited lecture         | Cheng, Gang        | Structure-property studies towards the rational design of zwitterionic materials                                   |      |
| 13:50 - 14:10          | Invited lecture         | Benetti, Edmondo   | Chemical and Topological Evolution of Polymer Biointerfaces  |      |
| 14:10 - 14:30          | Invited lecture         | Sui, Xiaofeng      | Enzyme-Mediated Graft Polymerization of Zwitterionic Polymers from Cellulose Nanofiber - derived Porous Materials  |      |
| 14:30 - 14:50          | Invited lecture         | White, Andrew      | Computational design of peptide-based materials with maximum entropy molecular simulation and data-driven modeling |      |

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|---------------|--------------------------|--------------------|--|---|------------------|
| 14:50 - 15:10 | Break                    |                    |  |   |                  |
| 15:10 - 15:25 | Contributed lecture      | Appelhans, Dietmar | Functional principles of polymeric vesicles for mimicking cell functions                                   | Lactobionic acid modified mixed-charge self-assembled monolayer modified gold nanoparticles as smart carries for active targeting     | Li , Xu          |
| 15:25 - 15:40 |                          | Biehl, Philip      | Polyampholytic hybrid nanoparticles as platform for reversible adsorption processes                        | Antimicrobially Active Polyzwitterions - A Paradigm Change?   | Lienkamp, Karen  |
| 15:40 - 15:55 |                          |                    | CL3  | Functionalizable Ultra-Low Fouling Nonionic and Zwitterionic Surfaces: Effects of Surface Physico-Chemical Properties on Living Cells | Lísalová, Hana   |
| 15:55 - 16:10 |                          | Huang, Chun-Jen    | Responsive Interpenetrating Network Hydrogels with Reversibly Switchable Killing/ Releasing Bacteria       | Bio-inspired mechano-functional gels through multi-phase order-structure engineering  | Liu, Mingjie     |
| 16:10 - 16:25 |                          | Jiang, Jingxian    | A Shape Recovery Zwitterionic Bacterial Cellulose Aerogel with Superior Performances for Water Remediation | Multi-functional polymer coatings based on zwitterionic phosphorylcholines  | Münch, Alexander |
| 16:25 - 16:40 |                          | Koc, Julian        | Thin Hydrogel Coatings for marine applications made of Photocrosslinked Polyzwitterions                    | Zwitterionic Copolymer Scaffolds for Nonaqueous, Ionic Liquid-Based Gel Electrolytes  | Panzer, Matthew  |
| 17:30 - 18:30 | Dinner                   |                    |  |   |                  |
| 18:30 - 22:00 | Poster session I. + wine |                    |  |   |                  |

| Time                    | Event                        | Name                | Title   |
|-------------------------|------------------------------|---------------------|---|
| <b>June 18, Tuesday</b> |                              |                     |   |
| 8:30 - 9:15             | Plenary lecture              | Ratner, Buddy       | RF-Plasma Deposition to Create Non-Fouling, Zwitterionic and Other Surfaces                           |
| 9:15 - 9:45             | Keynote invited lecture      | Vos de, Wiebe       | Polyzwitterions in Membrane Separations: Beyond Anti-fouling  |
| 9:45 - 10:15            | Keynote invited lecture      | Laschewsky, Andre   | Designing Zwitterionic Polymer for Thin Film Hydrogels and Low-Fouling Surfaces                       |
| 10:15 - 10:30           | Break                        |                     |   |
| 10:30 - 11:00           | Keynote invited lecture      | Bintinger, Johannes | Towards a biomimetic smell sensor   |
| 11:00 - 11:30           | Keynote invited lecture      | Wu, Peiyi           | ZwitterIonic skin   |
| 11:30 - 11:50           | Invited lecture              | Iwasaki, Yasuhiko   | Zwitterionic thiol-protected nanoparticles and nanoclusters   |
| 11:50 - 13:00           | Lunch and Poster Session II. |                     |   |
| 13:00 -13:45            | Plenary lecture              | Gleason, Karen      | Chemical Vapor Deposition (CVD) of Zwitterionic Surfaces  |
| 13:45 - 14:05           | Invited lecture              | Wang, Yapei         | Spider-Inspired Multicomponent 3D Printing for Tissue Engineering                                     |
| 14:05 - 14:35           | Invited lecture              | Bernards, Matthew   | Evaluating the Role of Electrostatic Interactions on Macroscale Properties of Polyampholyte Hydrogels |
| 14:35-14:55             | Invited lecture              | Cao, Zhiqiang       | Zwitterionic Materials for Nanomedicine   |
| 14:55 - 15:15           | Invited lecture              | Chang, Yung         | Impacts of Zwitterionic Membranes in Medical Applications   |
| 15:15 - 16:45           | Break - Organ Concert        |                     |   |

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|---------------|-------------------------------------|---------------|--|
| 16:45 - 17:05 | Invited lecture                     | Zheng, Jie    | Multifunctional Zwitterionic Materials for Engineering   |
| 17:05-17:25   | Invited lecture                     | Chen, Shengfu | Ultra-high Bio-affinity Recovery of RGDS peptide through protein mimicking based on the zwitterionic PAMAM-5 |
| 17:25 - 17:45 | Invited lecture                     | Wang, Zhanhua | Water-Repairable Zwitterionic Polymer Coatings for Anti-Biofouling Surfaces                                  |
| 19:00 - 21:30 | Banquet, dinner, Poster price award |               |  |
| 21:30 -       | Bar "Verloren Zoon"                 |               |  |

| Time                      | Event                                      | Name               | Title  |  | Name             |
|---------------------------|--|--------------------|--|--|------------------|
| <b>June 19, Wednesday</b> |  |                    |  |  |                  |
| 9:00 - 9:45               | Plenary lecture                            | Lei, Jiang         | Smart Interfacial Materials from Super-Wettability to Binary Cooperative Complementary Systems                                     |  |                  |
| 9:45 - 10:15              | Keynote invited lecture                    | Ji, Jian           | Polyelectrolyte Complex Coatings: From Bioinspired Method to Real Coating Technology   |  |                  |
| 10:15 - 10:45             | Keynote invited lecture                    | Beer, Sissi        | Tribo-Mechanics of Vapor-Hydrated Polymer Brushes  |  |                  |
| 10:45 - 11:00             | Break                                      |                    |  |  |                  |
| 11:00 - 11:15             |  | Roeven, Esther     | Design, Synthesis and Characterization of Fully Zwitterionic, Functionalized Dendrimers  | PEDOT-based Zwitterionic Conducting Polymer for Organic Electrochemical Transistor Biosensors        | Yu, Qiuming      |
| 11:15 - 11:30             |  | Shen, Yizhou       | Rationally design nanostructure features on superhydrophobic surfaces for enhancing self-propelling dynamics of condensed droplets | Computer Simulations on the Structure-Property Relationship of the Zwitterionic Drug Delivery System | Zhou, Jian       |
| 11:30 - 11:45             |  | Takemoto, Hiroyasu | Polyzwitterion comprising 1,2-diaminoethane that recognizes tumorous pH for effective delivery of the coated nanoparticles         | Bioactive Zwitterionic Surfaces for Biosensing   | Baggerman, Jacob |
| 11:45 - 12:00             | Farewell                                   |                    |  |  |                  |
| 13:00 - 14:00             | Lunch                                      |                    |  |  |                  |
| 14:00 -                   | Optional excursion to Maastricht. Sign up. |                    |  |  |                  |