1. Stefan Wiedemeier, K. Lemke, R. Römer, A. Grodzian, G. Gastrock; Institute for Bioprocessing and Analytical Measurement Techniques e. V., Heilbad Heiligenstadt, Germany; "Microfluidic actuators for droplet based microfluidics"

2. Jona Schenkenberg, M. Rombach, M. Specht, M. Karle; 1 Institute for Bioprocessing and Analytical Measurement Techniques e. V., Heilbad Heiligenstadt, Germany, 2 Hahn-Schickard, Freiburg, Germany; "Biomagnetic cell separation using "Lab-On-Disk" technology for "point-of-care" diagnostic (BioCellLab)"

3. Yingna Li, Brian P. Cahill; Institute for Bioprocessing and Analytical Measurement Techniques e. V., Heilbad Heiligenstadt, Germany; "Low Potential Electroosmotic System"

4. Nobu Karippai, S. Wiedemeier, A. Lindenauber, A. Barthel, T. Nace, G. Gastrock, Brian P. Cahill; Institute for Bioprocessing and Analytical Measurement Techniques e. V., Heilbad Heiligenstadt, Germany; "Electric Impedance Spectroscopy, Method to Characterize Bacterial Growth in Microfluidic Droplets"

5. Ho Haana, R. Baber, D. Du Toit, I. Parkin, A. Gaslilicic; Department of Chemical Engineering, University College London; "Sub-5 nm Gold Nanoparticle Synthesis by the Turkевич Method in a Microfluidic System"


7. Rico Bing, C. Burkart, D. Pfitzner, D. Jungmann, L. Baraban and G. Cuniberti; University of Technology Dresden; "Ecoxotivity assessment using ciliate cells in a millilfluiddroplet analyzer"

8. Shieen Su,1 A. Horma1,2, A. Ruszczak1, P. Garstecki1 and T. May1; 1. Applied sensor group, Institute of Analytical Chemistry and Food Chemistry, Graz University of Technology, Graz, Austria, 2. Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, Poland; *These authors contributed equally to this work* Corresponding authors: Garstecki, May; "Quantitative monitoring of oxygen concentration in droplets in a microfluidic culturing system"

9. Peter Kieli1, P. Beranek1, L. Vobecka1, Z. Slouka1, J. Lindner1, M. Pribyl1, D. Snteli1; 1University of Chemistry and Technology, Prague (2) West Bohemia University Pilzen; "Liquid metal alloy EGaIn in microfluidics"

10. Kasia Bernmann, A. Groß, S. Schneider, J.M.Köhler; Technical University Ilmenau, Faculty of Mathematics and Natural Sciences Department of Physical Chemistry/Microreaction Technology; "Systemintegration and Software for tropfenbasierte Screening-Systeme"

11. Ineska Techer and J. Michael Köhler; Technical University Ilmenau, Faculty of Mathematics and Natural Sciences Department of Physical Chemistry/Microreaction Technology; "Dual staining assessment of the green algae Raphodilois subcapitata in microfluidic droplets"

12. Katharina Wettel1, A. Groß1, S. Schneider1, D. Kürsten2, E. Kothe1, Th. Henkel1, M. Kielpninski1, J.M.Köhler1; Technical University Ilmenau, Institute for Chemistry and Biotechnology, Department of Physical Chemistry and Microreaction Technologies, Ilmenau, Germany; 2 Friedrich-Schiller University Jena, Institute for Microbiology, Department Microbial Communication, Jena, Germany; "Plasmonic design by microfluidics: size-tuned gold cubes and silver prisms obtained by segmented flow syntheses"

13. Nikunj Kumar Visaveliya1, R. Römer1 and J.M. Köhler1; 1Technische Universität Ilmenau, Department of Physical Chemistry and Microreaction Technology, Prof. Schmidt-Str. 26, D-98693 Ilmenau, GERMANY; "Plasmonic design by microfluidics: size-tuned gold cubes and silver prisms obtained by segmented flow syntheses"

14. Andrea Krause1, R. Röell1 and J.M. Köhler1; 1Technische Universität Ilmenau, Department of Physical Chemistry and Microreaction Technology, Prof. Schmidt-Str. 26, D-98693 Ilmenau, GERMANY; "Thermoresponsive micelles: tuning of the size and the hydrophilic/hydrophobic balance in the micelle core"
Tuesday, February 23rd
13:00 Opening Lecture
Welcome and opening (chair: Michael Köhler)
13:10 - 13:55 (Keynote-Presentation) Klavs F. Jensen, Massachusetts Institute of Technology, Department of Chemical Engineering, USA; "Continuous oscillating droplet microfluidics for synthesis and optimization" (chair: Gunter Gastrock)
15:20 - 15:50 Florian Schmieder, J. Ströbel, S. Grünzner, M. Busek, U. Klotzbach, F. Sonntag; Fraunhofer Institute for Material and Beam Technology, Ilmenau, Germany; "Automated microfluidic sample conditioning platform for chip calorimetry" (coffee break)
16:15 - 16:55 Steffen Horst, C. Iv, I. V. Naransakkhiwat; Department Nano- and Mikrofluidik, TU Berlin, Germany; "Manipulation of nanoparticles based on light-induced Marangoni flows" (Keynote-Presentation) Markus Bäuerle, Technical University of Munich, Germany; "The microfluidic-laboratory disc - an adaptable platform to transfer different applications into a microfluidic device" (dinner at "Hotel am Wald")
18:00 Poster session
Wednesday, February 24th
10:15 - 10:45 Microfluidic approaches for (bio-) organics, pharmaceuticals and green synthesis (chair: Volker Heuse)
10:45 - 11:30 "Hybridization of bubble break-up mechanism in micro-channel nozzles" (Jörn Schäfermann, J. Lechner, A. Grodian, T. Hartmann, A. Wolf, R. Körner, L. Lemke, G. Gastrock; Institute for Bioprocessing and Analytical Measurement Techniques, Helmholtz-Universität Dresden, Germany; "Automated microfluidic sample conditioning platform for chip calorimetry"
12:30 - 13:30 Lunch at "Hotel am Wald"
13:30 - 14:10 Cultivation, separation and screening (chair: Martin Roth)
14:10 - 14:30 "Flow processes in microreaction technology" (chair: Stefan Dittmann)
14:30 - 14:50 Flow processes in microreaction technology (chair: Stefan Dittmann) (Keynote-Presentation) Volker Hessel, I. Vural; Gursel, 5. K. Kurt, Q. Wang*, T. Noet, K.D.P. Nigam*, N. Kockmann*, J. T. Erdmann, Chemical Engineering and Chemistry Department, Micro Flow Chemistry and Process Technology, the Netherlands; 2. Technical University of Dortmund, German; 3. Indian Institute of Technology, New Delhi, India; "Segmented flow in micro- and mini-channel flow inverters for continuous extraction: extraction efficiency, metal (catalyst) recovery and kilo-lab upsaling"
15:30 - 16:10 Stefan Kurtz, F. Zinck, G. Gastrock; Institute for Bioprocessing and Analytical Measurement Techniques e. V., Helmholtz-Universität Dresden, Germany; "Pharmacokinetic surface modification and its influence on droplet generation in microfluidic systems"
17:15 - 17:35 "Pharmacokinetic surface modification and its influence on droplet generation in microfluidic systems" (Keynote-Presentation) Mark Keisling, Th. Henkel, Leibniz Institute of Photonic Technology Jena, IPHT Abt. Nano-biophotonik, AG, Kolloid- und Nano, Jena, Germany; "The microfluidic-laboratory disc - an adaptable platform to transfer different applications into a microfluidic device" (dinner at "Hotel am Wald")
19:00 - 20:00 Poster session
Thursday, February 25th
08:30 - 09:15 (Keynote-Presentation) Matthias Thiele, A. Knauer*, R. Müller, O. Stranik, A. Csáki, T. Henkel, J. M. Köhler*, W. Fritzschke, Leibniz Institute of Photonic Technology Jena, IPHT, Jena, Germany; "Improved production of plasmonic nanoparticles by using microfluidic devices" (Fedor Thayse, Technical University of Denmark). "Automated radiosynthesizers for production of radio-pharmaceuticals: technologies, customers needs and market opportunities" (chair: Volker Heuse)
09:15 - 09:35 "Continuous oscillating droplet microfluidics for synthesis and optimization" (chair: Gunter Gastrock)
10:15 - 10:45 Microfluidic approaches for (bio-) organics, pharmaceuticals and green synthesis (chair: Volker Heuse)
10:45 - 11:30 Lunch at "Hotel am Wald"