

| Wednesday - 13 th of July | | |
|--|-------|---|
| Registration and Exhibitor Set-up, Inffeldgasse 25D | | |
| 9. International Kurt Schwabe Symposium - Opening and Plenary Talk (HS i7) (Chair Mertig) | | |
| 08:15 | 08:30 | Opening - Winfried Vonau and Michael Mertig |
| 08:30 | 09:15 | Plenary Talk - Kristina Tschulik Advanced understanding of electrocatalysis at nanoscale materials by spectro-electrochemistry and single entity electrochemistry |
| Session 9 - Kurt Schwabe Symposium (HS i7) (Chair Weidlich) | | |
| 09:15 | 09:45 | Topic A - Gas Detection / H ₂ : Keynote - Olaf Kieseewetter: O. Kieseewetter, A. Kraußner, N. Kieseewetter, M. May H ₂ sensors for industrial and automotive applications: Technical, safety and cost aspects of customized and scalable sensor systems |
| 09:45 | 10:05 | Talk 1 - J. Zosel, P. Sood, M. Mertig, O. Herrmann, M. Wozatz: Miniaturized hydrogen gas sensor system for safety monitoring |
| 10:05 | 10:25 | Coffee Break |
| 10:25 | 10:45 | Talk 2 - S. Wohlrab, A. Wotzka, M. Eiserbeck, A. Hebestreit, U. Roland: Impedimetric spillover sensing for hydrogen detection in reducing media |
| Session 9 - Kurt Schwabe Symposium (HS i7) (Chair Wohlrab) | | |
| 10:45 | 11:15 | Topic B - Bio-electrical sensors: Keynote - Adam Dorey: A. Dorey and S Howorka Electrochemical sensing of single molecules using nanopores |
| 11:15 | 11:35 | Talk 1 - S. Howorka: Building molecular doors for sensing and synthetic biology |
| 12:00 | 13:00 | Lunch |
| 13:00 | 13:20 | Talk 2 - S. Morlock, M. Schenderlein, D. Ciornii, A. Zouni, F. Lisdat: Advancements in photobioelectrodes based on photosystem I |
| 13:20 | 13:40 | Talk 3 - M. Frigoli, R. Arreguin-Campos, H. Diliën, T.J. Cleij, K. Eersels, B. van Grinsven: Indirect Detection of Pseudomonas Aeruginosa using Molecularly Imprinted Polymers |
| 13:40 | 14:00 | Talk 4 - M. Caldara, J.W. Lowdon, K. Tschulik, T.J. Cleij, H. Diliën, K. Eersels, B. van Grinsven: Thermal detection of glucose in urine using a molecularly imprinted polymer as a recognition element |
| 14:00 | 14:20 | Talk 5 - S. Bakhshi Sichani, M. Khorshid, P. Cornelis, G. Wackers, P. Wagner : Study of DNA hybridization using a novel thermal biosensing platform as a proof-of-concept |
| 14:20 | 14:40 | Coffee Break |
| Session 9 - Kurt Schwabe Symposium (HS i7) (Chair Zosel) | | |
| 14:40 | 15:10 | Topic C - Environmental monitoring and smart farming: Keynote - Moritz Schlagmann: Development of Sensor Nodes and Sensors for Smart Farming |
| 15:10 | 15:40 | Talk 1 - S. Voigt, A. Willert, F. Roscher: Environmental friendly and low cost monitoring system for plant and agriculture fields |
| 15:40 | 16:00 | Talk 2 - M. Brandão Silva de Assis, A. Kick, J. Schwarz, K. Trommer, M. Mertig: Development of a miniaturized electrochemical sensor for on-site nitrate monitoring |
| 16:00 | 16:20 | Talk 3 - J. Weißpflog, M. Mertig: Approaches to voltammetric detection of As(III) and As(V) in mining waters for in-situ application |
| 16:20 | 16:40 | Talk 4 - A. Svirepa, J. Schwarz, K. Trommer, S. Schwarz, M. Mertig: Preparation and applications of biopolymer-modified electrochemical sensors |
| 16:40 | 17:00 | |
| 17:00 | 17:20 | Coffee Break |
| Session 9 - Kurt Schwabe Symposium (HS i7) (Chair Vonau) | | |
| 17:20 | 17:50 | Topic D - Advanced electrochemical detection methods: Keynote - Claudia Weidlich: C. Weidlich, M. Wieland, T. Haisch Electrochemical Monitoring of Vanadium Redox Flow Batteries |
| 17:50 | 18:20 | Talk 1 - M. Brycht, B. Burnat, A. Leniart, S. Skrzypek: The effect of surface pre-treatment of a planar boron-doped diamond electrode on the electrochemical response of fenhexamid |
| 18:20 | 18:40 | Talk 2 - J. Zosel, A. Müller, D. Lison, U. Guth, M. Mertig: Measurement of hydrogen peroxide vapour with mixed potential solid electrolyte sensors |
| 18:40 | 19:00 | Talk 3 - R. Arreguin Campos, K. Eersels, R. Rogosic, T.J. Cleij, H. Diliën, B. van Grinsven: Imprinted polydimethylsiloxane-graphene oxide composite receptor for the biomimetic thermal sensing of Escherichia coli. |