PRELIMINARY CONFERENCE PROGRAM

Sunday, September 4th

15:00 – 18:00  Registration
18:00 – 20:00  Meet and Greet

Monday, September 5th

9:00 – 9:30  Opening Ceremony
            Jiří Wanner

9:30 – 10:00  Keynote 1: The Wastewater Treatment Plant 2030
              Glen Daigger

10:00 – 10:30  Keynote 2: Wastewater Treatment in Central and Eastern Europe
               László Somlyódy

10:30 – 11:00  Coffee Break

11:00 – 12:30  Session 1 – Case Studies
               Chair: Kees de Korte

11:00 – 11:30  Conditions and technologies of biological wastewater treatment in Hungary
               G. M., Tardy, V. Bakos, A. Jobbágy

11:30 – 12:00  An Update on San Francisco’s Wastewater Master Planning Process and Implementation
               Jon Loiacono, Chu-Fei H. Ho, Domènec Jolis, Bonnie Jones, Karen Kubick

12:00 – 12:30  Implementing the World’s Largest Wastewater Treatment Project to Date: The Atotonilco WWTP
               E. Espino de la O, J. Sandino, H. Mendoza

12:30 – 13:30  Lunch Break

13:30 – 15:00  Session 2 – Design and Planning
               Chair: László Somlyódy

13:30 – 14:00  Strategic Planning approach for Optimising Investment at WWTPs
               J. Krampe, M. Leak

14:00 – 14:30  How to Expand Your Plant Without Increasing Your Footprint – A Case Study at Käppala WWTP
               T. Palmgren, A. Thunberg

14:30 – 15:00  Adaptation of WWTP design parameters to warm climates using mass balancing of a full scale plant
               C. Wolder, S. Lindtner, A. Proesl, F. Klegraf, T. Vasanthakumar, N. Weissenbacher

15:00 – 15:30  Coffee Break

15:30 – 17:30  Session 3 – Energy Efficiency
               Chair: Sudhir Murthy

15:30 – 16:00  Keynote 3: Energy and Wastewater Treatment
               Helmut Kroiss

16:00 – 16:30  Low-Energy Plants – The Next Generation of Wastewater Treatment Plants? Some Examples and Future Prospects
               K.-H. Rosenwinkel, M. Beier, P. Hartwig

16:30 – 17:00  Comparison of greenhouse gas emissions from UASB based and conventional primary clarifier based sewage treatment plants
               B. Heff ernan, J. Blanc, J. van der Lubbe

17:00 – 17:30  Development of a Comprehensive Plan for Utilization of Digester Gas Moves Towards Energy Self-Sufficiency in Chicago, USA
               Thomas E. Kunetz, Jarek Fink-Finowicki, Steve McGowan, Eric Auerbach

17:30 – 18:00  Meeting of the Specialist Group

20:00 – 23:00  Cultural event offered to the participants
Tuesday, September 6th

8:30 – 9:00  Keynote 4: Nutrient Removal and Recovery - Where we stand and where to go?  
  George Ekama

9:00 – 10:30  Workshop: Benchmarking of wastewater treatment plants  
  Norbert Jardin

9:00 – 10:30  Session 4 – Phosphorus Removal  
  Chair: George Ekama

9:00 – 9:30  Chemical P removal – from lab tests through model understanding to full-scale demonstration  
  I. Takács, B. R. Johnson, S. Smith, A. Szabó, S. Murthy

9:30 – 10:00  Costs and environmental effects of phosphorus removal and recovery at WWTP Amsterdam West  
  Jacqueline de Danschutter, Peter Piekema, Enna Klaversma

10:00 – 10:30  Saving Phosphorus Removal at the Henderson NV plant  
  Barnard J, Houweling D, Analla H, Steichen M

10:30 – 11:00  Coffee Break

11:00 – 12:30  Workshop: Data collection, quality management and reporting to public and authorities (Transforming operational data to information)  
  Helmut Kroiss

11:00 – 12:30  Session 5 – Nitrogen Removal  
  Chair: James Barnard

11:00 – 11:30  Two years of full-scale bioaugmentation trials on Winnipeg North high purity oxygen activated sludge system  
  N. Szőke, G. Munz, J.H. Hwang, J. Oleśzkiewicz

11:30 – 12:00  Full-Scale Operating Experience of Deep Bed Denitrification Filter Achieving < 3 mg/l Total Nitrogen and < 0.18 mg/l Total Phosphorus  
  Joseph A. Husband, Larry Slattery, John Garrett, Frank Corsaro, Carol Smithers, Scott Phipps

12:00 – 12:30  WEF/WERF Study of BNR Plants Achieving Very Low N & P Limits: Evaluation of Technology Performance & Process Reliability  
  Charles B. Bott, Denny S. Parker, Jose Jimenez, Mark W. Miller, J. B. Neethling

12:30 – 13:30  Lunch Break

13:30 – 15:00  Workshop: How close to your permit do you design or operate your plant? Effluent regulations, sampling strategies and risk  
  Eva Belia

13:30 – 15:00  Session 6 – Elimination of Microconstituents  
  Chair: Helmut Kroiss

13:30 – 14:00  Removal of micropollutants in municipal wastewater treatment plants by powder activated carbon  
  Boehler, M., Zwickenpflug, B., Hollender, J., Ternes, T., Joss, A., Siegrist, H.

14:00 – 14:30  Large-Scale Treatment of Micropollutants at the Schwerte WWTP  
  Thomas Grünebaum, Norbert Jardin, Dieter Thöle

14:30 – 15:00  20 years of operating flocculation filter units – on the way from phosphorous to micropollutant removal  
  V. Erbe

15:00 – 15:30  Coffee Break

15:30 – 17:00  Session 7 – Advances in Wastewater Treatment  
  Chair: Jiri Wanner

15:30 – 16:00  Dutch sustainable Nereda* technology takes an impressive step towards maturity  
  H. F. van der Roest, B. de Bruin, M.C.M. van Loosdrecht, M. Pronk

16:00 – 16:30  Design of Large Municipal Waste Water Treatment Plants using latest SBR technology: case studies Macau - China (500,000 PE) and Baghdad (1,200,000 PE)  
  N. Philips, M. Tserashchuk, B. Verrecht, S. Wyffels, R. Gerards, L. Vriens

16:30 – 17:00  Removal of toilet paper from influent of municipal wastewater treatment by sieves.  
  C.J. Ruiken, E. Klaversma, M.C.M. van Loosdrecht

17:00 – 17:30  Mechanical pre-treatment (MPT) – revitalised by MBR process  
  W. Schier, K. Drensia, A. Janet, H. Exler, N. Engelhardt, F.-B. Frechen

17:30 – 20:00  Poster Reception
# 11th IWA Specialised Conference “Design, Operation and Economics of Large Waste Water Treatment Plants”

**Wednesday, September 7th**

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<th>Time</th>
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<td>8:30 – 9:00</td>
<td><strong>Keynote 5: Integrated urban drainage optimisation - improving the system of sewer network and wastewater treatment</strong>&lt;br&gt;Peter Steen Mikkelsen</td>
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| 9:00 – 10:30 | **Session 8 – Interactions between Sewerage System and Wastewater Treatment Plant**<br>*Chair: Norbert Jardin*  
| 9:00 – 9:30 | Integrated control of sewer system and WWTP for nitrogen peak load reduction with SmaRTControl<br>Kees de Korte |
| 9:30 – 10:00 | Combined wastewater feed directly into final clarification – advantage for receiving rivers and wastewater fee<br>Dr.-Ing. P. Hartwig |
| 10:00 – 10:30 | Direct precipitation on demand at large WWTP:s – operational experiences and treatment results<br>Ann Mattsson, Glen Nilvert, Mari Heinonen |
| 10:30 – 11:00 | Coffee Break |
| 11:00 – 12:30 | **Session 9 – Sludge and Reject Water Treatment**<br>*Chair: Julian Sandino*  
| 11:00 – 11:30 | Downstream Process Impacts as Criteria for Selection of Thermal Hydrolysis at Large Plants<br>Matthew J. Higgins, Bernhard Wett, Thomas Puempel, Imre Takács, Perry Schafer, Beverly Stirson, Walter Bailey, Sudhir Murthy |
| 11:30 – 12:00 | Full scale experience with the deammonification process to treat high strength sludge water – a case study<br>N. Jardin, J. Hennerkes |
| 12:00 – 12:30 | Case Study on the Implementation of Deammonification for the Process Water Treatment of Munich WWTP's<br>Rita Hilliges, Eberhard Steinele, Bernhard Böhm |
| 12:30 – 13:30 | Lunch Break |
| 13:30 – 15:00 | **Session 10 – Operating Experiences I**<br>*Chair: Denny Parker*  
| 13:30 – 14:00 | Towards more accurate design and specification of aeration systems using on-site column testing<br>D. Rosso, L.-M. Jiang, David M. Hayden, Paul Pitt, Charles S. Hocking, Sudhir Murthy, Michael K. Stenstrom |
| 14:00 – 14:30 | Critical modelling parameters identified for 3D CFD modelling of rectangular final settling tanks for New York City Waste Water Treatment Plants. <br>K. Ramalingam, S. Xanthos, M. Gong, J. Fillos, K. Beckmann, A. Deur, J. A. McCorquodale |
| 14:30 – 15:00 | Bulking control by full-scale ozonation of returned activated sludge at low dose<br>S. Lyko, B. Teichgräber, A. Kraft |
| 15:00 – 15:30 | Coffee Break |
| 15:30 – 17:00 | **Session 11 – Operating Experiences II**<br>*Chair: Burkhard Teichgräber*  
| 15:30 – 16:00 | Comparative studies on the differently operated trains of the North-Budapest Wastewater Treatment Plant<br>Gy. Pakó, T. Weinpel, M. Mákó, A. Jobbágy |
| 16:00 – 16:30 | Prague WWTP – operational results of continuous upgrading<br>O. Beneš, V. Todt, P. Chudoba, L. Novák |
| 16:30 – 17:00 | Startup and Operation of a Large Wastewater Treatment Plant in Warm Climate and Under Modified Conditions – A Case Study<br>M. Sarıoğlu |
| 17:00 – 17:30 | Case Study of Odor and Indoor Air Quality Assessment in the Dewatering Building at the Stickney Water Reclamation Plant<br>Manju Sharma, Susan O’Connell, Brett Garelli, Chakkrid Sattayatewa, Krishna Pagilla |
| 17:30 – 18:00 | Closing Ceremony and Award Ceremony of Best Poster |
| 19:30 – 22:30 | Gala Dinner |