



Monday, 11 July 2016

09:00 17:00	Workshops OKC & GSI: Integrated mine water quality assessment; a toolbox for making predictions utilizing quantitative modelling methodologies; Room 1C DHI: Groundwater Modelling at Mine Sites – Introduction to using FEFLOW in mining; Room 219 hydrocomputing: Modeling Hydrodynamics and Water Quality of Pit Lakes – A Hands-on Introduction to the Open Source Software PITLAKQ; Room 2A DGFZ: Innovative Technologies for Mine Water Treatment and Retention of Mining Related Contaminants – Recent Examples Registration; Room 2B
16:00 18:00	IMWA Executive Council Meeting; Room 1B
15:00 19:00	Registration
18:00 18:30	Author's Briefing, Room 1A
18:00 20:00	Welcome Reception

Tuesday, 12 July 2016

on Tuesday, July 12, there will be simultaneous translation (German-English, English-German) in room [1AB resp. 1A](#)

07:30 09:00	Registration																																
09:00 10:00	Opening Ceremony (Room 1AB) Chair: Prof. Dr. Carsten Drebenstedt, TU Bergakademie Freiberg, Germany Words of Welcome State Minister Thomas Schmidt, Saxon Ministry for the Environment Uwe Albrecht, Mayor of Leipzig John Waterhouse, IMWA President Award Ceremony ZBL foundation - Best Dissertation 2016 Keynote Speeches (Room 1AB) Zschiedrich et al. (LMBV, Germany): Rehabilitation of water resources induced by large scale mining in Germany Paul (Wismut, Germany): Progress and prospects of mine water management in the former East German Uranium Mining Province Nordstrom (US Geological Survey, USA): Waste or resource? Extraction potential from acid mine drainage for useful resources																																
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17:50 19:30	Poster Show																																
19:30 22:00	BBQ																																

Wednesday, 13 July 2016

all day	Mid-Conference Excursion
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08:30 09:30	Keynote 1 Room 1A Chair: Friedrich-Carl Benthaus, LMBV Senftenberg, Germany	Keynote 2 Room 1B Chair: John Waterhouse, Golder Associates Pty Ltd, Perth, Australia
08:30	Worsa-Kozak (Cuprum KGHM, Poland): Mine water as a resource - Innovative concepts for the mine water management in modern mining and mineral exploration	Kauppiila (Geological Survey of Finland, Finland): Mine Closure Wiki - Databank for Mine Closure
09:00	Struzina, Koch (MIBRAG mbH, Vattenfall Europe Mining Germany): Latest development in water management of eastern-German lignite industry	Falagán (Bangor University, UK): New insights into the microbiology of meromictic acidic pit lakes in the Iberian Pyrite Belt (Spain)

09:30 10:00 Coffee Break

10:00 12:05	Mine Water Treatment 2 Room 1A Chair: Marja Liisa Räisänen, GTK Finland	Mine Water Geochemistry 2 Room 1B Chair: Mattias Bäckström, Örebro University, Sweden	Geotechnical Aspects related to Mine Water Room 1C Chair: Georg Wieber, Landesamt für Geologie und Bergbau Rheinland-Pfalz, Germany	Microbiology and Bioleaching Room 2A Chair: Nils Hoth, TU Bergakademie Freiberg, Germany	Mine Closure 2 Room 2B Chair: Henk Coetzee, Council for Geoscience, South Africa
10:05	294 - Agafonov, Drebenstedt et al. (MISIS Moscow/ TU Bergakademie Freiberg, Russia/ Germany): Research and development of vibroacoustic purification methods and disinfection of waste waters [...]	036 - Kirchner et al. (Lorax Environmental Services Ltd. Canada): Geochemical trends in evaporative tailings ponds – an experimental study	125 - Gourdiér et al. (BRGM, France): Coupled Hydromechanical Model For Assessing Land Subsidence Due To Salt Layers Dissolution	063 - Vasquez Ochoa et al. (Universidad Central Bogotá, Colombia): Microbial community dynamics during the biochemical treatment of acid mine drainage under three different hydraulic retention times	078 - Gzyl et al. (Central Mining Institute, Poland): Low Carbon After-Life – overview and first results of project LOCAL
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10:45	055 - Frank, Man et al. (Saltworks Technologies Inc., Canada): Extreme Recovery Membrane Process and Zero Liquid Discharge Low Temperature Crystallization for Treating Scaling Mine Waters	079 - Uhlmann, Lindig et al. (Institut für Wasser und Boden, Germany): Estimation of pyrite weathering in Lusatian lignite open cast mines using geochemical investigation methods	165 - Mayes, Jarvis (University of Hull, UK): Mine water outbreak and stability risks: examples and challenges in England and Wales	136 - Heim, Schliömann et al. (Helmholtz Institute Freiberg for Resource, TU Bergakademie Freiberg, Germany): Mineralogical Changes within Polish Weissliegend Sandstones During Bioleaching	185 - Saksa et al. (Geosto Oy Consultants, Finland): Geophysical electromagnetic measurements for mine site groundwater monitoring
11:05	067 - Hedin et al. (Hedin Environmental, USA): The complicated role of CO2 in mine water treatment	109 - Dent et al. (Schlumberger Water Services, UK): Effects of scale of kinetic tests on leachate chemistry prediction	243 - Breckenridge et al. (Global Resource Engineering, USA): Integrated Slope Stability and Dewatering Evaluation: Optimizing Slopes to Optimize Value	265 - Arnold et al. (VTT Technical Research Centre of Finland Ltd, Finland): Microbiology and Chemistry Interactions in a Biological Sulphate-Reducing Process	226 - Linder et al. (Fichtner Water & Transportation GmbH, Germany): United Nations Development Programme (UNDP): Detailed technical design for acid mine water treatment in Novo Brdo Mine [...]
11:25	126 - Fosso-Kankeu et al. (North-West University, South Africa): Performance of synthesized hybrid hydrogel nanocomposite applied for the removal of metal ions from aqueous solutions	119 - Mgoqi et al. (Golder Associates Africa, South Africa): eMalaheni (Witbank): Application of modern geochemical methods and review of historical work in Africa's oldest coalfield	245 - Sui et al. (China University of Mining and Technology, China): Risk assessment of coal mining under sand aquifers	088 - Stasik et al. (UFZ Helmholtz-Centre for Environmental Research, Germany): Sulfur Cycling in an Oil Sands Tailings Pond	230 - Musche et al. (University of Applied Sciences HTW Dresden, Germany): Detection of iron-rich groundwater "hot spots" entering streams in Lusatia
11:45	263 - Kassahun et al. (Wismut GmbH, Germany): Feasibility study on seepage water treatment at a uranium TMF site by ion exchange and ferric hydroxide adsorption	156 - Sjöberg, Allard et al. (Stockholm University, Sweden): REE-Enriched Mn-Oxide Precipitates in Water-Bearing Fractures in the Ytterby Mine, Sweden	296 - Sun (China University of Mining and Technology): Monitoring and numerical simulation of water inrush pathway caused by coal mining above karstic confined aquifer with high water pressure	271 - Opitz et al. (University of Cape Town, South Africa): Characterising Environmental Risks Associated with Sulfide-bearing Gold Wastes	264 - Müller et al. (ANDRITZ Ritz GmbH, Germany): Mine water drainage in disused coal mines as an eternal task

12:05 13:30 Lunch Break

13:30 15:15	Mine Water Treatment 3 Room 1A Chair: Robert Hedin, Dr. Hedin Environmental, USA	Mine Closure 3 Room 1B Chair: Carmen Mihaela Neculita, UQAT, Canada	Mine Dewatering 1 Room 1C Chair: Danie Vermeulen, University Free State, South Africa	Secondary Mining – In-situ Recovery 1 Room 2A Chair: Barrie Johnson, Bangor University, UK	Pit Lakes 2 Room 2B Chair: Rens Verburg, Golder Associates, USA
13:35	050 - Tolonen et al. (University of Oulu / Kajaani University of Applied Sciences, Finland): Sorption of arsenate on ettringite formed in sulphate removal from mine drainage water	066 - Coetzee (Council for Geoscience South Africa): Management of water levels in the flooded mines of the Witwatersrand, South Africa	002 - Rüde et al. (RWTH Aachen University, Germany): Optimized dewatering wells for open pit mining to prevent well loss from ochre formation	257 - Krause et al. (Umwelt- und Ingenieurtechnik GmbH Dresden, Germany): Hydrological Characterization and Optimization of In-Situ Recovery Technology	027 - Schultze, Wendt-Potthoff et al. (UFZ Helmholtz-Centre for Environmental Research, Germany): On the relevance of meromixis in pit lakes – an update
13:55	113 - Fernandez-Rojo et al. (Université de Montpellier, France): Iron and arsenic removal in a continuous flow reactor treating As-rich acid mine drainage (AMD)	208 - Rapantova et al. (Technical University of Ostrava, Czech Republic): Experience of mine water quality evolution at abandoned uranium mines in Germany and the Czech Republic	017 - Boland et al. (Schlumberger Water Services UK): Deploying Oil and Gas drilling techniques with Directional Well Placement technology (DWPT) in open pit and underground mines	258 - Nicolai et al. (Umwelt- und Ingenieurtechnik GmbH Dresden, Germany): Geochemistry of In-Situ Recovery of Metals	065 - Schäfer et al. (Steinbeis Transferzentrum Grundwassermodellierung, Germany): Quantification of Acidity Deposition in the Sediment of a former lignite mining lake in the Wackersdorf Mining District [...]
14:15	143 - Pinto et al. (EDM, Portugal): Passive treatment of radioactive mine water in Urgeirica uranium mine, Portugal	183 - Wieber et al. (Johannes Gutenberg University Mainz Germany): Pycnocline dynamics in an abandoned and flooded mine dynamics in an abandoned and flooded mine	091 - Johnstone, Kriel et al. (GCS Johannesburg, South Africa): Ghaghoo Mine Dewatering and Injection of Excess Water	270 - Eisen et al. (TU Bergakademie Freiberg, Germany): Bioleaching of indium-bearing sphalerite under underground mining temperatures	068 - Wendt-Potthoff et al. (UFZ Helmholtz Centre for Environmental Research, Germany): Varve formation in the acidic (pH 2.7): pit lake 111 (Lusatia, Germany)
14:35	189 - Burghardt et al. (TU Dresden, Germany): Treatment of Seepage Water from a Tailings Pond of Uranium Mining: Column Tests with a Novel Schwertmannite Adsorbent	176 - Loredó et al. (University of Oviedo, Spain): Water management issues in an abandoned mine sector of El Bierzo coal basin (Spain)	162 - Schwank (Bauer Maschinen GmbH, Germany): Cut-off Wall Technologies in Mining	283 - Meschke et al. (TU Bergakademie Freiberg, Germany): Nanofiltration – A new separation pathway in secondary mining	129 - Beddoes, Vandenberg et al. (Golder Associates Ltd. Canada): Validation of Springer Pit Lake Water Balance and Water Quality Model, Mount Polley Mine, British Columbia, Canada
14:55	272 - Paul et al. (Wismut GmbH, Germany): Advanced chemical oxidation for arsenic treatment at a flooded uranium mine with a bio-geochemically reduced mine water pool	122 - Kruse et al. (Ohio University, USA): Comparing Acid and Metal Loading Before and After Stream Capturing Subsidence Closure	95 - Weidner et al. (Federal Institute for Geosciences and Natural Resources BGR, Germany): Wellbore skin in Mine Dewatering and Drinking Water Supply: Field Observation, Mineralogy and Hydraulic Effect	292 - Ogola et al. (University of Venda, South Africa): Economic Potential of Gold Tailings Dams: A Case Study of the Klein Letaba Tailings Dam, Limpopo Province, South Africa	147 - Uhlmann, Zimmermann et al. (Institut für Wasser und Boden, Germany): Causes of an distinct metalimnic oxygen minimum in the pit lake Senftenberger See in summer 2013 as a case study

15:15 Coffee Break

15:45 17:30	Mine Water Hydrogeology Room 1A Chair: Adam Jarvis, Newcastle University, UK	Mine Closure 4 Room 1B Chair: Jorge Loredó, University of Oviedo, Spain	Mine Dewatering 2 Room 1C Chair: Andrew Johnstone, GCS South Africa	Secondary Mining – In-situ Recovery 2 Room 2A Chair: Ursula Kelm, Universidad de Concepción, Chile	Pit Lakes 3 Room 2B Chair: Michael Struzina, MIBRAG, Germany
15:50	026 - Digges La Touche (Golder Associates Ltd. UK): Earthquakes and Groundwater and Surface Water Management at Mine Sites	020 - Johnson et al. (Navarro Research and Engineering, Inc. USA): Column Testing and 1D Reactive Transport Modeling to Evaluate Uranium Plume Persistence Processes	149 - Ekmekci et al. (Hacettepe University, Turkey): Progressive Sinkhole Occurrence Induced By Dewatering Activities in a Large Lignite Mine (SE Turkey)	146 - Wijdeveld et al. (Technical University of Delft / Deltarae, The Netherlands): Use of tensiometers to determine the Moisture Characterization Point in ores	177 - Nixdorf et al. (UFZ, Helmholtz-Centre for Environmental Research, Germany): Biogeochemical processes controlling density stratification in an iron-meromictic lake
16:10	047 - Xu et al. (China University of Mining & Technology Beijing, China): Mechanisms on Mine Water Loss Based on a Theory of Mining-Fractures Development Pattern	099 - Ethier et al. (Université de Québec in Abitibi-Témiscamingue, Canada): A 3D numerical model to assess the performance of the reclamation measures for an abandoned mine site	209 - Heinrich et al. (MIBRAG mbH Germany): Hydrogeological exploration and field tests on vacuum wells in overburden sediments for determination and modelling of process parameters	205 - Drobe et al. (Federal Institute for Geosciences and Natural Resources BGR, Germany): Economic Potential for reprocessing Copper Mine Tailings in Chile	098 - Pérez-Sindín López (Technology Gdansk University, University of A Coruña Poland/ Spain): Challenges of pit lakes from a sociological perspective
16:30	269 - Wolkersdorfer et al. (Tshwane University of Technology (TUT), South Africa): Can natural Stratification prevent Pollution by Acid Mine Drainage?	111 - Novhe et al. (Council for Geoscience South Africa): Long-Term Remediation of Acid Mine Drainage [...] using Integrated (anaerobic and aerobic) passive Treatment System	286 - Hagedorn et al. (TU Bergakademie Freiberg, Germany): Dewatering challenges in a large scale production hard rock open pit in northern Sweden	288 - Ussath et al. (TU Bergakademie Freiberg, Germany): Potential Recovery of strategic elements from heap leaching material	153 - Koch et al. (GFI GmbH Dresden, Germany): A new pit lake treatment technology using calcium oxide and carbon dioxide to increase alkalinity
16:50	300 - Wu Qiang (China University of Mining and Technology, China): The progress of the mine water prevention and control on basic principles in China	124 - Lourens et al. (University of the Free State, South Africa): Impact of Coal-Based Fertilizer Effluent Disposed in Dolerite Quarries on the Groundwater Quality	301 - Szczepinski (Poland): The significance of groundwater flow modeling for simulation of open mine cast mine dewatering	287 - Günther et al. (TU Bergakademie Freiberg, Germany): Specific Retention of Copper and Strategic Elements from Chilean Mine Water with Zeolites and Peat-Based Sorption Media	075 - Uhligh et al. (GIP GmbH Dresden, Germany): Iron removal from the Spree River in the Bühlow pre-impoundment basin of the Spremberg reservoir
17:10	132 - Lukas et al. (University of the Free State, South Africa): Automation in mine water balance calculations	199 - Schlottmann et al. (LMBV mbH, Germany): Investigation of the effects of groundwater resurgence and subsequent exfiltration of ferrous groundwater from the dump site Witznitz		181 - Bogush et al. (Institute of Geology and Mineralogy SB RAS, Novosibirsk / UCL, London, Russia/ UK): Application of a Peat-Humic Agent for AMD Remediation and Element Removal	236 - Griseček et al. (University of Applied Sciences HTW Dresden, Germany): Field experiments on subsurface iron removal in the Lusatian mining region

19:30 23:00 **Conference Banquet**



08:30 09:30	Keynote 3 Room 1AB Chair: Christian Wolkersdorfer, Tshawane University, South Africa
08:30	Prommer (CSIRO Land and Water, Australia): Simulating mining-related reactive transport processes across multiple length and time-scales
09:00	Knöller (Helmholtz-Centre for Environmental Research UFZ, Germany): Stable isotope tools for assessing flow dynamics and contaminant degradation in mining landscapes

09:30 10:00 Coffee Break

10:00 12:05	Mine Water Geochemistry 3 Room 1A Chair: Steven Pearce, O'Kane Consultants, UK	Extracting Value from Mine Waters 2 Room 1B Chair: Robert Bowell, SRK Consulting, UK	Mine Closure 5 Room 1C Chair: Felix Bilek, GFI GmbH Dresden, Germany	Flow Modelling Room 2A Chair: Nada Rapantova, Technical University of Ostrava, Czech Republic	Mine Water Treatment 4 Room 2B Chair: Maria Falagan, Bangor University, UK
10:05	018 - Zielke-Olivier et al. (University of the Free State, South Africa): Fine Ash Leaching in Tailings Dams – An Impact on the Underlying Aquifers?	277 - Sole, Hardwick (Consulting Hydrometallurgist, Cwenga Technologies, South Africa): Recovery of copper from Chilean mine waste waters	038 - Willscher et al. (Universität Halle, Germany): Geochemical and microbial conditions of different lignite coal spoil and overburden areas and their environmental impact	051 - El Idrisy et al. (Geological Society of London, UK): Diagnostic of operating mine dewatering wells efficiency through groundwater modeling	140 - Nariyan et al. (Lappeenranta University of Technology (LUT), Finland): Cadmium removal from real mine water by electrocoagulation
10:25	031 - Verburg et al. (Golder Associates, USA): Surface Paste Disposal of High-Sulfide Tailings at Neves-Corvo – Evaluation of Environmental Stability and Operational Experience	120 - Crooks et al. (The Coal Authority, UK): A sustainable approach to managing the treatment of mine waters associated with historic mining	182 - Nilsson et al. (Örebro University, Sweden): Municipal sludge ash for abatement of ARD	115 - Paszkowski et al. (BGC Engineering Inc., Canada): Adit Dewatering at a Proposed Gold Mine: Numerical Analysis of a Large-Scale Long-Term Pumping Test	074 - Christenson et al. (CRL Energy Ltd. New Zealand): Mn removal from acid mine drainage using limestone leaching beds
10:45	080 - Pope et al. (CRL Energy Ltd, New Zealand): Factors that control mine water quality from bituminous coal deposits in New Zealand	093 - Chesters et al. (Genesys International Ltd., UK): Membranes and minewater – waste or revenue stream?	222 - Bäckström (Man-Technology-Environment Research Centre, Sweden): Use of several different scales at a TMF in order to predict drainage concentrations after closure	137 - Dennis et al. (North-West University, South Africa): Open Pit Mine Flooding Prognosis making use of Analytical Element Modelling in Fractured Hard Rock	128 - Sartz et al. (Örebro University/ Bergskraft Bergslagen AB, Sweden): Development of a low-tech treatment for neutral mine water – a case study
11:05	112 - Åhlgren et al. (Örebro University, Sweden): Identification of major point sources in the severely contaminated alum shale area in Kvarntorp, Sweden	241 - Figueroa et al. (Colorado School of Mines, USA): Evaluating zinc recovery from mining influenced water for fertilizer applications	232 - Sirén et al. (Luleå University of Technology, Sweden): Green liquor dregs in mine waste remediation, from laboratory investigations to field application	259 - Graham et al. (DHI Denmark): From Catchment Hydrology to Dewatering at Mine Sites	145 - Lopes, Wolkersdorfer et al. (Lappeenranta University of Technology, Finland): Nitrate reduction in real mine water using zero-valent iron (ZVI) and iron waste
11:25	196 - Khayrulina (Perm State National Research University, Russia): Aspects of the environmental monitoring on the territory of Vernekamskoye Potash Deposit (Russia)	255 - Steyler et al. (Prodomos Technologies, South Africa): Integrating the acid mine drainage value chain - polluted water abstraction to sustainable environmental conformance	240 - Schafer (Schafer Limited LLC, USA): Geochemical Evaluation of Cemented Paste Tailings in a Flooded Underground Mine	261 - Clausnitzer (DHI-WASY GmbH, Germany): Modeling groundwater and heat flow subject to freezing and thawing	200 - Gast et al. (LUG Engineering GmbH, Germany): Modular container-based mine water treatment plants for the flexible clearance of iron-rich surface waters
11:45	005 - Wisotzky, Droste (Ruhr-University Bochum, Germany): Hydrochemistry of Lignite Mining Dumps in the Rhineland Lignite Mining Areas (Germany)		303 - Sephton et al. (La Trobe University, Australia): Preliminary results from experiments with Cement slurries to control Acid Mine Drainage in Waste Rocks from Brukunga Mine in South Australia	274 - Nitz et al. (Ingenieurbüro für Grundwasser GmbH IBGW, Germany): Field Tests and Ecological Assessment of an Opencast Mine-Dewatering using a Horizontal Directional Drilled Well	223 - Gomez-Arias et al. (University of the Free State, South Africa): Efficacy of alkaline mine waste as treatment for acid drainage

12:05 13:30 Lunch

13:30 15:15	Water related mine design Room 1A Chair: James Pope, CRL Energy, New Zealand	Mine Water Regulation and General Aspects 2 Room 1B Chair: Magdalena Worsa-Kozak, KGHM Cuprum, Poland	Transport Modelling 2 Room 1C Chair: Jerry Vandenberg, Golder Associates, Canada	Mine Water Treatment 5 Room 2AB Chair: Eberhard Janneck, GEOS Freiberg, Germany
13:35	071 - Pearce et al. (O'Kane Consultants Inc. UK): Linking waste rock dump construction and design with seepage geochemistry: an integrated approach using quantitative tools	306 - Drebenstedt (TU Bergakademie Freiberg, Germany): Financial Calculation of Long Term Tasks in Mine Water Management	056 - Schöpke et al. (BTU Cottbus-Senftenberg, Germany): Modelling the changes in water quality of AMD along the flow path	144 - Hamai et al. (Japan Oil, Gas and Metals National Corporation, Japan): A Compact Passive Treatment Process for AMD Using Rice Husk and Rice Bran
13:55	060 - Daley et al. (Schlumberger Water Services UK): Modelling approach to predict peak inflows at the Argyle block cave mine, Western Australia	295 - Bongaerts (TU Bergakademie Freiberg, Germany): Recognition and external reporting of mine water treatment costs according to IFRS Standards	190 - Weber et al. (DGfZ e.V., Germany): Reactive transport modelling of iron-II and sulphate in the former Lusatian lignite mining areas	151 - Hildmann et al. (Research Institute for Post-Mining Landscapes FIB e.V., Germany): Microbial Iron Retention in the Groundwater upstream to a River
14:15	231 - Swanson et al. (Global Resource Engineering, USA): Mine Water Balances – A New Proposed Approach	094 - Wiesner et al. (Central Mining Institute Katowice, Poland): Environmental risk mitigation resulting from implementation of mine water treatment technologies developed within project MANAGER	192 - Huisamen et al. (Geo Pollution Technologies, South Africa): Modelling the Hydrogeochemistry of Decommissioned Opencast Coal Mines	239 - Figueroa et al. (Colorado School of Mines, USA): Sulfate reducing bioreactor longevity estimates based on substrate characterization and initial carbon utilization
14:35	285 - Simon et al. (TU Bergakademie Freiberg, Germany): Strategies to avoid AMD in active lignite mining	198 - Werner et al. (Emscher Wassertechnik GmbH, Germany): Mine Water Issues addressed in the project train@mine	246 - Sennerfors et al. (Saitec, Sweden): Decision Making For Sustainable Tailings and Water Management – A Dynamic Modelling Approach	247 - van Hille et al. (The Moss Group, South Africa): Development of a pilot-scale semi-passive system for the bioremediation of ARD
14:55		267 - Ruhland, Wolkersdorfer (Bauhaus University Weimar Germany): Waters of Deep Ground – Mine Water and Emotions	262 - Lippmann-Pipke, Karimzadeh et al. (Helmholtz-Zentrum Dresden-Rossendorf, Germany): Reactive transport modelling based on velocity fields obtained on drill core scale	266 - Hebner, Gerth et al. (Vita 34 AG, Business Unit BioPlanta, Germany): On site feasibility study on biotechnical sulphate reduction

15:15 15:45 Coffee Break

15:45	Closing Ceremony Room 1AB Chair: Carsten Drebenstedt, TUBAF, Germany
15:45	Awards
16:00	IMWA 2016 Summary & Closing remarks
16:45 17:00	Invitation to IMWA 2017

17:00 18:00 **Farewell Reception**