

CONFERENCE PROGRAM

FIRST DAY - SEPTEMBER 10, 2014

Registration (Foyer König-Karl-Halle 08:00 – 09:00)

Welcome (König-Karl-Halle 09:00 – 09:30)

Prof. Dabbert, Rector University of Hohenheim and Mr Max Reger, Ministerium für Ländlichen Raum und Verbraucherschutz Baden-Württemberg

Keynote speeches (König-Karl-Halle 09:30 – 11:00)

Prof. Ashok Pandey – Upgrading technique - India

Jens Bo Holm-Nielsen - Biogas developments in Europe, challenges and future prospects. - High performing biogas plants with low cost feedstock – Denmark

Prof. Mohammad Taherzadeh – Bio-methane as fuel for cars and buses in Sweden – Sweden

Coffee break – Poster session, exhibition (List-Saal 11:00 – 11:30)

	König-Karl-Halle	Bertha-Benz-Saal	Karlsruhe	List-Saal
11:30 – 12:45	Session 1 – Domestic biogas plants	Session 2 – Environment, methane-emissions	Session 3 - Process control, modelling of the biogas process	
	Nepal's Biogas Programme: A Successful Model for Wider Replication Biogas, <i>Keshav Dutta Dawadi, Jant Urja (Energy) Bikas Company Pvt. Ltd., Nepal</i>	Potential of residual gas from biogas plants, <i>Dr. Hans Oechsner, University of Hohenheim, Germany</i>	Monitoring microbial communities in anaerobic digestion by digital droplet PCR, <i>Jean-Francois Lemay, National Center for Electrochemistry and Environmental Technologies, Canada</i>	
	Design of cylindrical fixed dome bio digester in the condominium houses for cooking purpose at Dibiza Site, East Gojjam, Ethiopia, <i>Molla Asmare, Ethiopia</i>	Mesophilic anaerobic co-digestion of cow manure and biogas crops in full scale German biogas plants: A model for calculating the effect of hydraulic retention time and VS crop proportion in the mixture on methane yield from digester and from digestate storage at different temperatures, <i>Ivo Mucha, University of Frankfurt, Germany</i>	Multiposition sensor technology and lance-based sampling for improved monitoring of biogas processes, <i>Eric Kielhorn, Technische Universität Berlin, Germany</i>	
	Harnessing biogas from human excreta for cooking meals in a rural boarding school in Malaysia, <i>James Dawos Mamit, PhD., Natural Resources and Environment Ministry, Malaysia</i>	Examination to optimize a method to quantify methane emission rates at biogas plants using TDLAS data, <i>Angela Groth, University of Stuttgart, Germany</i>	Electronic nose for reactor stability monitoring of an agricultural co-digestion biogas plant, <i>Gilles Adam, University of Liège, Belgium</i>	

Lunch – Poster session, exhibition (List-Saal 12:45 – 14:45)

14:15 – 15:50	Session 1 – Domestic biogas plants	Session 4 - Innovative fermentation and digester construction methods	Session 3 - Process control, modelling of the biogas process	Exhibition and poster session
	Ferrocement , a constructive alternative, <i>Lucas Gallo Mendoza, Instituto Nacional de Tecnología Agropecuaria, Argentina</i>	Biocatalytic methanation of hydrogen and carbon dioxide according to the Power to Gas Strategy, <i>Dr. Marko Burkhardt, Brandenburgische Technische Universität, Germany</i>	Influence of substrate disintegration pretreatment on the efficiency of agitation systems by measuring the particle size distribution in agricultural biogas digesters, <i>Hans-Joachim Nägele, University of Hohenheim, Germany</i>	
	What could China give to and take from other countries for development of biogas industry? Lessons learned from each other, <i>Shikun Cheng, University of Science & Techn. Beijing, USTB, China</i>	Two-phase pressurized anaerobic digestion: an innovative system for biogas production, purification and upgrading, <i>Dr. Andreas Lemmer, University of Hohenheim, Germany</i>	Process simulation model for biogas production, <i>Karthik Rajendran, University of Borås, Sweden</i>	
	Implementation approaches for domestic biogas in Mexico, its development implications and GHG mitigation potential, <i>Mariela Pino, Red de Biodigestores para America Latina y el Caribe, Chile</i>	Chemical oxygen demand balances of pressurized anaerobic filters and the origin of COD in process liquids, <i>Johannes Krümpel, University of Hohenheim, Germany</i>	Critical comparison of different model structures for the applied simulation of the anaerobic digestion process, <i>Sören Weinrich, Deutsches Biomasse Forschungszentrum, Germany</i>	
Appropriate Biogas Technology in Africa - Practical Examples, <i>Dr. Thomas Krimmel, Southern Biopower Ltd, Zambia</i>	Microbial Fuel Cell Deployment for Secondary Treatment from Anaerobic Digestion Effluent in Costa Rica, <i>Stephanie Lansing, PhD, University of Maryland, USA</i>	Direct Method for Estimating the Performance of Biogas Plants: Microscopic Quality Index, <i>Prof. Dr. Paul Scherer, Hochschule für Angewandte Wissenschaften Hamburg, Germany</i>		

Coffee break – Poster Session, exhibition (List-Saal 15:50 – 16:20)

16:20 – 17:55	Oral – Poster Session	Session 4 - Innovative fermentation and digester construction methods	Practitioners forum
		Filtration of anaerobic filter effluent, <i>Dr. Simon Zielonka, University of Hohenheim, Germany</i>	Process Control of Agricultural Biogas Plants in Practice, <i>Dr. Markus Schlattmann, Awite Bioenergie GmbH, Germany</i>
		Two phase biogas reactor for fast methanification of manure, <i>Prof. Heralt Schöne, Hochschule Neubrandenburg, Germany</i>	Liquid feeding in biogas plants, <i>Peter Nemeth, Pumpenfabrik Wangen GmbH, Germany</i>
		Intelligent thermal energy management using a novel multi-chamber biogas reactor – a prototype, <i>Michael Müller, Prüf- und Forschungsinstitut, Germany</i>	Monitoring of gas parameters to control feeding cycles, <i>Manuela Charatjan, Binder GmbH, Germany</i>
Anaerobic Digestion of Food Waste through the Operation of a Mesophilic Two-Phase Pilot Scale Digester, <i>Stefan Grimberg, PhD, Clarkson University, USA</i>	Flexibilisation of gas production, <i>Eva Sonnleitner, MicrobEnergy GmbH, Germany</i>	Power to gas: Biological methanation, first field project at a sewage treatment plant, <i>Dr. Monika Reuter, MicrobEnergy GmbH, Germany</i>	

Posters exhibition (König-Karl-Halle & List-Saal 18:00 – 19:00)

Evening reception (Eyth-Saal 19:00)

SECOND DAY – SEPTEMBER 11, 2014

Registration (Foyer König-Karl-Halle 08:00 – 08:30)

	König-Karl-Halle	Bertha-Benz-Saal	Karlsruhe	List-Saal
08:30 – 10:25	Session 5 – Agricultural biogas plants	Session 6 – Digestate application and management	Practitioners forum	
	Biogas from farm waste ponds in temperate climates – Studies and examples from New Zealand, <i>Stephan Heubeck, NIWA, New Zealand</i>	Fertilising potential of separated biogas digestates applied to annual and perennial biomass production systems, <i>Andrea Ehmann, University of Hohenheim, Germany</i>	DinaMETAN The software for optimizing feeding and profitability of biogas power plants, <i>Helmut Mittermair, BTS Biogas Srl/GmbH, Germany</i>	
	Production of renewable energy by biogas in Italy: current situation and future developments, <i>Alessandro Ragazzoni, Università di Bologna, Italy</i>	Creating value addition for anaerobic digestate by cultivating mushroom (<i>Pleurotus</i> spp.) in combination with agro-residues, <i>Sreesha Malayil, Indian Institute of Science Centre for Sustainable Technologies, India</i>		
	Suitability of <i>Euphorbia tirucalli</i> and <i>Opuntia ficus-indica</i> as biogas feed stock, <i>George Francis, Live Energies GmbH, Germany</i>	Investigations on fertilizer production from digestate in a two stage vacuum-vaporizer, <i>Stephan Ruile, University of Hohenheim, Germany</i>		
	Biogas from cover crops – energy yield, EROEI and economic feasibility, <i>Dr. Manfred Szerencsits, Öko Cluster, Austria</i>	Waste heat from biogas plants: experiences from 10 feasibility studies in Germany, <i>Dominik Rutz, WIP GmbH & Co KG, Germany</i>		
	On-farm co-digestion of cattle slurry and grass silage, <i>Dr James Browne, Agri Food & Biosciences Institut, United Kingdom</i>	Methane emissions from biogas plants under operation, <i>Dr. Joachim Clemens, Bonalytic GmbH, Germany</i>		
Coffee break – Poster session, exhibition (List-Saal 10:25 – 10:50)				
10:50 – 12:25	Session 7 – Biogas generation from industrial, communal and municipal bio-waste	Session 8 – Flexibility of biogas production and use	Session 9 – Process inhibition	
	Biogas Generation from Biowaste – Status Quo and Development, <i>Nadja Rensberg, Deutsches Biomasse Forschungszentrum, Germany</i>	Efficiency of the hydrolysis in a two-stage biogas concept with biogas production on demand (ReBi-concept), <i>Kirsten Loewe, HAWK, Hochschule für angewandte Wissenschaft und Kunst, Germany</i>	Microscopic Digital Image Analysis of a Farm-Scale Thermophilic Biogas Plant for Early Detection of Ammonia Inhibition Effects, <i>Yong Sung Kim, HAW, Hochschule für Angewandte Wissenschaften Hamburg, Germany</i>	
	Anaerobic digestion of salty cheese whey and permeate in a two-stage system, <i>Mikel Orive, Azti Tecnalia, Spain</i>	Flexible biogas plants for future energy systems – requirements and potentials with special reference to the biogas plants in Baden-Württemberg, <i>Benjamin Fleischer, University of Stuttgart, Germany</i>	Monofermentation of high solids chicken manure by ammonia removal, <i>Dr Fabian Jacobi, Deutsches Biomasse Forschungszentrum, Germany</i>	
	Co-digestion of waste from biodiesel process mixed with tropical starch wastewater in hybrid bioreactor, <i>Chalermchai Ruangchainikom, PTT Public Company Limited, Thailand</i>	Flexible biogas production for flexible energy supply, <i>Eric Mauky, Deutsches Biomasse Forschungszentrum, Germany</i>	Biogas from protein-rich industrial waste and associated metagenomic changes, <i>Prof Kornel Kovacs, University of Szeged, Hungary</i>	
Biochemical methane potential of agro-food wastes from the Castilla and León Region (Spain), <i>Jesús Martín, Fundación CARTIF, Spain</i>	Small scale biogas upgrading plant for use as vehicle fuel, <i>Ueli Öster, Apex AG, Germany</i>	Anaerobic digestion of chicken manure for the production of ammonium carbamate, <i>Christian Strutz, Brandenburgische Technische Universität, Germany</i>		
Lunch – Poster session, exhibition (List-Saal 12:25 – 13:50)				
13:50 – 15:25	Session 7 – Biogas generation from industrial, communal and municipal bio-waste	Session 10 – Technical economical and social cooperative structures of decentralized small scale biogas systems	Session 11 – Study case China	
	Decentral process for biogas production from fruit and vegetable waste, <i>Dr. Brigitte Kempter-Regel, Fraunhofer IGB, Germany</i>	Financing Biogas projects in the European Union: A new paradigm, <i>Dr. Patrick Dorvil, European Investment Bank, Luxembourg</i>	Biogas in China, <i>Liang Liu, China Agricultural University, China</i>	
	Extraction of soluble substances from organic solid municipal waste to increase methane production, <i>Rosalinda Campuzano, Universidad Nacional Autónoma de Mexico, Mexico</i>	Entering new biogas markets in developing and emerging countries / Partnering and financing options of the German Development Cooperation, <i>Clemens Findeisen, German Biogas Association, Germany</i>	Biogas from fibrous residual biomass, coeval research and technological development in China and Germany, impact on the current China Clean Stove Initiative, <i>Andreas Krieg, HAWK, Hochschule für angewandte Wissenschaft und Kunst, Germany</i>	
	Bio gas generation from industrial, communal and municipal, bio-waste, <i>Thamali Vithanage, Sri Lanka</i>	"Biogas is not a symbol of poverty, but an alternative fuel that nature provides us" - from small farm digesters to waste treatment facilities, <i>Heinz-Peter Mang, China</i>	Thermophilic anaerobic co-digestion of spent coffee grounds and waste activated sludge using a submerged anaerobic membrane reactor, <i>Wei Qiao, China Agricultural University, China</i>	
Research on methane fermentation efficiency from food waste as an alternative substrates for biogas plant, <i>Andrzej Lewicki, Poznan University of Life Sciences, Poland</i>	Flexible biogas kit for faecal sludge treatment in disaster relief, <i>Katrin Kayser, IBBK, Germany</i>	Performance and kinetics evaluation of a completely stirred anaerobic reactor treating food waste: Role of trace elements, <i>Shubiao Wu, China Agricultural University, China</i>		
Coffee break – Poster session, exhibition (List-Saal 15:25 – 15:50)				
	Session 7 – Biogas generation from industrial, communal and municipal bio-waste	Session 12 – Pretreatment technologies	Practitioners forum	
	Biogas production using livestock manure and abattoir wastewater: Case studies from Australia, <i>Bernadette McCabe, University of Southern Queensland, Australia</i>	Effects of enzyme addition on rheological properties of digester content, <i>Karola Elberg, University of Rostock, Germany</i>		

15:50 – 17:25	Analysis of meso/thermo AD process applied to pressed biowaste during transient/stressed conditions and co-digestion with waste active sludge, <i>Federico Micolucci, University of Verona, Italy</i>	Full-scale investigations of the use of lignocellulosic materials for anaerobic digestion, <i>Matthias Mönch-Tegeger, University of Hohenheim, Germany</i>	
	Decentralised combination of pig slurry, fruit wastes and wasted sardine oil for biogas production - Results of a pilot experiment in Portugal, <i>Luis Ferreira, Universidade Technica de Lisboa, Portugal</i>	Examine the effects of crop maturity and size reduction on digestibility of energy crop for biomethane production, <i>Prof. Samir Khanal, University of Hawaii at Manoa, USA</i>	
	Degradation of pharmaceuticals from wastewater by using anaerobic digestion technologies- fist characterizations and treatment performances, <i>Tobias Wätzel, Bauhaus-Universität Weimar, Germany</i>	Enhancement of Biogas Production from Laying Hen Manure via Sonolysis as Pretreatment, <i>Prof. Nuri Azbar, EGE University, Turkey</i>	
Closing session (17:25 – 18:00)			
End of the conference (18:00)			

(Program may be subject to change)