Invited Lectures

The 2nd **Microbial Fuel Cell** Conference

No	Name	Title
Plenary Lecture		
	Byung Hong Kim (Korea University, Korea)	Microbial Fuel Cell; where to go
Keynote Lectures		
	In S. Kim (Gwangju Institute of Science & Technology, Korea)	Water and Energy,Indispensable Factors of Human City
	Bruce E. Logan (The Pennsylvania State University, U.S.A.)	Recent advances in the design and operation of microbial fuel and microbial electrolysis cells
	Bruce E. Rittmann (Arizona State University, U.S.A.)	How Do the Anode-Respiring Bacteria Get the Electrons to the Anode So Fast?
	Robert C.T. Slade (University of Surrey, U. K.)	Indirect and Direct Electron Transfer in Microbial Fuel Cells incorporating Sulfate-Reducing Bacteria
	Chang Won Kim (Pusan National University, Korea)	Design Factor Affecting the Electrochemical Performance of Directly Applicable Microbial Fuel Cell for Wastewater Treatment
Sunrise meeting		
Part A	**Sung-Taek Oh** (University of Glasgow, U.K.)	Introduction of Microbial Fuel Cell Modelling: Prospective and Applications
Part B	**Hyung-Sool Lee** (Arizona State University, U.S.A.)	Understanding Bio-electrochemical Systems: Focusing on Biofilm Anode
Session A: Microbiology		
I-A-1	**John M.Regan** (The Pennsylvania State University, U.S.A.)	External Resistance Effects on Anode Biofilm Architecture and Performance
I-A-2	**Joonhong Park** (Yonsei University, Korea)	Discovering Commonly-Existing Anode Biofilm Microbes from Different Wastewater Treatment MFCs using Comparative Microbial Community Profiling Analysis
I-A-3	**Korneel Rabaey** (The University of Queensland, Australia)	Microbial ecology and interactions in anodic and cathodic biofilms
I-A-4	**Satoshi Okabe** (Hokkaido University, Japan)	Continuous power generation and microbial community structure of the anode biofilms in a three-stage microbial fuel cell system
I-A-5	**Yuri Gorby** (J. Craig Venter Institute, U.S.A.)	Bacterial Nanowires and Extracellular Electron Transfer in Microbial Fuel Cells
Session B: Electrochemistry & Material Science		
I-B-1	**Sunghyun Kim** (Konkuk University, Korea)	Improvement of MFC Performance through Chemical Modifications of Electrode Surfaces
I-B-2	**Uwe Schröder** (Technical University Braunschweig, Germany)	Chemical versus microbial cathodes – do we still need chemical cathodes?
Session C: System Development		
I-C-1	**Kazuya Watanabe** (University of Tokyo, Japan)	Cassette-electrode Microbial Fuel Cell For Sustainable Bienergy
I-C-2	**Xia Huang** (Tsinghua University, China)	Photo-stimulated Microbial Fuel Cell
I-C-3	**Largus T. Angenent** (Cornell University, U.S.A.)	Integrating BES in wastewater and sludge treatment flows
I-C-4	**Hong Liu** (Oregon State Univ., U.S.A.)	Strategies for Enhancing Power Generation in Microbial Fuel Cells
I-C-5	**NG How Yong** (National University of Singapore, Singapore)	Energy Considerations for Self-sustainable Microbial Fuel Cells
I-C-6	**Yujie Feng** (Harbin Institute of Technology, China)	Effects of Different Pretreatments for Carbon Fiber on Power Production in Air-cathode Microbial Fuel Cells
Session D: MFC Application		
I-D-1	**Jong Bor Chyan** (Malaysian Nuclear Agency, Malaysia)	Microbial Fuel Cell for Oil Palm Industry: potential for wastewater treatment and bioenergy generation
I-D-2	**Jung Rae Kim** (University of Glamorgan, U.K.)	Modular tubular microbial fuel cells for energy recovery and treatment at low organic loading
I-D-3	**Kyuseon Yoo** (Jeonju University, Korea)	Organic removal with denitrification by continuous operation of floating air-cathode microbial fuel cells (MFCs)
I-D-4	**René A. Rozendal** (The University of Queensland, Australia)	Industrial integration of bioelectrochemical systems
I-D-5	**Tae Ho Lee** (Pusan National University, Korea)	Microbial Dechlorination of Perchloroethene in a Bioelectrochemical System
I-D-6	**Young-Chae Song** (Korea Maritime University, Korea)	Microbial Ammonia Oxidation on the Anode of Microbial Electrolysis Cell

Welcome

Message from the Conference Chair

In Seop Chang, PhD
Associate Professor
Department of Environmental Science and Engineering
Gwangju Institute of Science and Technology

On behalf of the Organization and Program Committee, I would like to extend a warm welcome to all participants of **The 2nd International Microbial Fuel Conference.**

Since microbial fuel cells have been studied and a variety of applications developed, one of the main concerns has been electricity generation associated with waste treatment. For this reason, the quest for efficient microbial fuel cells has rapidly increased in recent years, especially in terms of trying to meet the increasing demand for environmental concerns as well as energy production. These concepts match **the theme of this conference**, from "***Waste to Energy***".

The aim of this conference is to provide a comprehensive forum for researchers and professionals engaged in the field of microbial fuel cells to present their work and meet their associates. We understand that microbial fuel cell research is a type of multi-disciplinary research that requires different areas of research such as microbiology, electrochemistry, and materials science as well as systems engineering. Hence, we hope that this event will bring together international scientists and engineers to meet and discuss their achievements and share ideas for further research and the development of other practical approaches.

The conference consists of the formal presentation of papers and posters. In addition, there are special sessions focused on **Microbiology, Electrochemistry, Materials Science, and MFC System Development & Applications** proposed along with a number of social activities. As such, we hope that this conference will provide an overview of the latest scientific and technological developments and current status of microbial fuel cells systems. I would like to express my sincere thanks to all invited speakers for their contribution in showing the big picture of **Microbial Fuel Cells.**

Finally, I would like to sincerely wish all our guests and delegates a very pleasant time during their stay at GIST.

Supporting Organizations

Sponsors

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" Waste to Energy "

The 2nd **Microbial Fuel Cell Conference**

June 10th - 12th, 2009
Oryong Hall, GIST, Gwangju, *Korea*

Organized by

Gwangju Institute of Science and Technology

Program Schedule

The 2nd **Microbial Fuel Cell** Conference

June 10th, 2009

Time (pm)	Contents		
12:30 - 1:30	On-site registration opens in the Oryong-Hall		
1:00 - 1:30	**Welcome and opening remarks** The president of GIST Deputy Director of Ministry of Education Science and Technology		
1:30 - 2:10	**Plenary Lecture (room 303)** Byung Hong Kim Microbial Fuel Cell; where to go		
2:10 - 2:25	Break, with refreshment		
	Session A : Microbiology (room 303)		**Session B : Electrochemistry & Material Science (room 204)**
Moderator	**In Seop Chang**	**Moderator**	**Rene Rozendal**
2:25 - 2:50	I-A-1: Invited speaker	2:25 - 2:50	I-B-1: Invited speaker
2:50 - 3:15	I-A-2: Invited speaker	2:50 - 3:10	O-B-1: Oral speaker
3:15 - 3:40	I-A-3: Invited speaker	3:10 - 3:30	O-B-2: Oral speaker
Moderator	**Korneel Rabaey**	**Moderator**	**Uwe Schröder**
3:40 - 4:00	O-A-1: Oral speaker	3:30 - 3:50	O-B-3: Oral speaker
4:00 - 4:20	O-A-2: Oral speaker	3:50 - 4:10	O-B-4: Oral speaker
4:20 - 4:40	O-A-3: Oral speaker	4:10 - 4:30	O-B-5: Oral speaker
4:40 - 5:00	O-A-4: Oral speaker	4:30 - 4:50	O-B-6: Oral speaker
5:00 - 6:00	**Poster Session (P-A-1 ~ P-B-17)**		

June 11th, 2009

Time	Contents		
7:00 - 8:00	**Sunrise meeting for "Mathematical Modelling for MFC system" (room 303)**		
9:00 - 10:00	**Keynote Lectures (room 303)** In S. Kim Water and Energy, Indispensable Factors of Human City Bruce E. Logan Recent advances in the design and operation of microbial fuel and microbial electrolysis cells (moderator: In Seop Chang)		
10:00 - 10:15	Break, with refreshment		
	Session A : Microbiology (room 303)		**Session B : Electrochemistry & Material Science (room 204)**
Moderator	**Joonhong Park**	**Moderator**	**Sunghyun Kim**
10:15 - 10:40	I-A-4: Invited speaker	10:15 - 10:40	I-B-2: Invited speaker
10:40 - 11:05	I-A-5: Invited speaker	10:40 - 11:00	O-B-7: Oral speaker
11:05 - 11:25	O-A-5: Oral speaker	11:00 - 11:20	O-B-8: Oral speaker
11:25 - 11:45	O-A-6: Oral speaker	11:20 - 11:40	O-B-9: Oral speaker
11:40 - 12:40	Lunch		
12:40 - 13:40	**Keynote Lectures (room 303)** Bruce E. Rittmann How Do the Anode-Respiring Bacteria Get the Electrons to the Anode So Fast? Robert C.T. Slade Indirect and Direct Electron Transfer in Microbial Fuel Cells incorporating Sulfate-Reducing Bacteria (moderator: Yuri Gorby)		
	Session C : System Development (room 303)		**Session D : MFC Application (room 204)**
Moderator	**Hong Liu**	**Moderator**	**Largus T. Angenent**
13:45 - 14:10	I-C-1: Invited speaker	13:45 - 14:10	I-D-1: Invited speaker
14:10 - 14:30	O-C-1: Oral speaker	14:10 - 14:30	O-D-1: Oral speaker
14:30 - 14:50	O-C-2: Oral speaker	14:30 - 14:50	O-D-2: Oral speaker
14:50 - 15:05	Break, with refreshment		
Moderator	**NG How Yong**	**Moderator**	**Young-Chae Song**
15:05 - 15:30	I-C-2: Invited speaker	15:05 - 15:30	I-D-2: Invited speaker
15:30 - 15:55	I-C-3: Invited speaker	15:30 - 15:55	I-D-3: Invited speaker
15:55 - 16:15	O-C-3: Oral speaker	16:55 - 16:15	O-D-3: Oral speaker
16:15 - 16:35	O-C-4: Oral speaker	16:15 - 16:35	O-D-4: Oral speaker
16:35 - 16:55	O-C-5: Oral speaker	16:35 - 16:55	O-D-5: Oral speaker
16:55 - 17:15	O-C-6: Oral speaker	16:55 - 17:15	O-D-6: Oral speaker
17:15 - 18:20	**Poster Session (P-C-1 ~ P-D-21)**		
18:20 ~ 19:00	**Korean folk performance**		
19:00 ~	**Banquet**		

June 12th, 2009

9:00 - 9:30 a.m.	**Keynote speech (room 303)** Chang Won Kim Design Factor Affecting the Electrochemical Performance of Directly Applicable Microbial Fuel Cell for Wastewater Treatment (moderator: In Seop Chang)		
	Session C : System Development (room 303)		**Session D : MFC Application (room 204)**
Moderator	**John M. Regan**	**Moderator**	**Satoshi Okabe**
9:35 - 10:00	I- C-4: Invited speaker	9:35 - 10:00	I- D-4: Oral speaker
10:00 - 10:20	O- D-7: Oral speaker	10:00 - 10:20	O- D-7: Oral speaker
10:20 - 10:40	O- D-8: Oral speaker	10:20 - 10:40	O- D-8: Oral speaker
10:40 - 10:55	Break, with refreshment		
Moderator	**Kazuya Watanabe**	**Moderator**	**Jung Rae Kim**
10:55 - 11:20	I- C-5: Invited speaker	10:55 - 11:20	I- D-5: Invited speaker
11:20 - 11:45	I- C-6: Invited speaker	11:20 - 11:45	I- D-6: Invited speaker
11:45 - 12:05	O- C-9: Oral speaker	11:45 - 12:05	O- D-9: Oral speaker
12:05 - 12:25	O- C-10: Oral speaker	12:05 - 12:25	O- D-10: Oral speaker
12:25 - 12:45	O- C-11: Oral speaker	12:25 - 12:45	O- D-11: Oral speaker
12:45 ~	**Closing**		

Oral **Presentation**

The 2nd **Microbial Fuel Cell** Conference

Session A: Microbiology

O-A-1	**Lital Alfonta** (Ben-Gurion University of the Negev, Israel)	Surface Display of Redox Enzymes as a Novel Approach in MFCs
O-A-2	**Prathap Parameswaran** (Arizona State University, U.S.A.)	Community structure in a biofilm anode fed with ethanol: Significance of hydrogen scavengers
O-A-3	**Ryuhei Nakamura** (The University of Tokyo, Japan)	Microbial Semiconductor Respiration: How Does Shewanella Engage in Long-Distance Extracellular Electron Transfer?
O-A-4	**Akihiro Okamoto** (The University of Tokyo, Japan)	In vivo Kinetics of Extracellular Electron Transfer in Shewanella loihica PV-4 Adsorbed on the Surface of Metal-Oxide Electrode
O-A-5	**Aijie Wang** (Harbin Institute of Technology, China)	Performance as a Function of Anode Potential and Community Analysis of the Anode Bio-film in a Two-chamber Microbial Electrolysis Cell (MEC)
O-A-6	**Xiaoxin Cao** (Tsinghua University, China)	Electricity generation by Klebsiella sp. in a microbial fuel cell

Session B: Electrochemistry & Material Science

O-B-1	**Frédéric Barrière** (University of Rennes, France)	A Bio-Fuel Cell with Microbes at the Anode and Enzymes at the Cathode
O-B-2	**Matthew D. Merrill** (The Pennsylvania State University, U.S.A.)	Electrolyte Effects on Hydrogen Evolution and Solution Resistance in Microbial Electrolysis Cells
O-B-3	**Sheela Berchmans** (Central Electrochemical Research Institute, India)	Biodegradation of azo dyes by Hansenula anomala for current generation
O-B-4	**Phuc Thi Ha** (Gwangju Institute of Science and Technology, Korea)	Determination of Charge Transfer Resistance and Double-layer Capacitance of Microbial Fuel Cell through Transient Response Analysis of Cell Voltage by Load Step Change
O-B-5	**Neda Faraghi** (Sahand University of Technology, Iran)	Effect of Conduction of Different Cations in Microbial Fuel Cells using Electrochemical Impedance Spectroscopy (EIS)
O-B-6	**Hyung-Sool Lee** (Arizona State University, U.S.A.)	Kinetic Characterization of Anode-respiring Bacteria in Microbial Electrochemical Systems
O-B-7	**Sung T. Oh** (University of Glasgow, U.K.)	Effect of electric field in anodic biofilm in microbial fuel cell.
O-B-8	**Beate Christgen** (University of Newcastle upon Tyne, U.K.)	Wastewater Treatment using Modified Carbon Anodes in Microbial Fuel Cells
O-B-9	**Peng Liang** (Tsinghua University, China)	Application of Carbon Nanotube powder in Microbial Fuel Cell

Session C: System Development

O-C-1	**Falk Harnisch** (Technical University Braunschweig, Germany)	Does the necessity of charge balance separate microbially driven devices from application?
O-C-2	**Shaoan Cheng** (The Pennsylvania State University, U.S.A.)	Effect of configuration and solution conditions on power generation of air cathode microbial fuel cells (MFCs)
O-C-3	**J Jayapriya** (PSG College of Technology, India)	The role of electrode configuration in capturing power generated in microbial fuel cells
O-C-4	**Ai-Jie Wang** (Harbin Institute of Technology, China)	Design and performance of a sediment microbial fuel cell (SMFC) with floating-biocathode
O-C-5	**Manal Ismail** (University Kebangsaan Malaysia, Malaysia)	Electricity Generation in Microbial Fuel Cell by Local Isolate of Clostridium butyricum from Palm Oil Mill Effluent
O-C-6	**Ronen Shechter** (Emefcy – Bio energy systems Ltd., Israel)	Comparison of performance and operation of membrane-less microbial fuel cells with bio-catalysis and Pt catalysis
O-C-7	**Charles C. Zhou** (Cascade Clean Energy, Inc. U.S.A.)	Generate Clean Energy from Wastewaters Using Cascade MFC and Cascade Methane Bioreactor
O-C-8	**Xian-Wei Liu** (University of Science & Technology of China, China)	Biohydrogen production from propionate in an innovative biocatalyzed system
O-C-9	**Hyung-Sool Lee** (Arizona State University, U.S.A.)	H2 Recycle Effect by Anode-respiring Bacteria in a Steady-state Single-Chamber Microbial Electrolysis Cell
O-C-10	**Olivier Lefebvre** (National University of Singapore, Singapore)	Conception of a Membrane Electrode Assembly Microbial Fuel Cell (MEA-MFC)
O-C-11	**Erika A. Parra** (University of California, U.S.A.)	Microfabricated Microbial Fuel Cell for Real-Time Bio-Catalyst Optical Monitoring and Electrical Signal Coupling

Session D: MFC Application

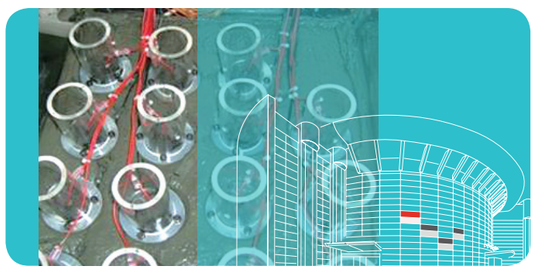
O-D-1	**Yang Mu** (University of Queensland, Australia)	Decolourization of Azo Dyes in Bio-electrochemical Systems
O-D-2	**Chontisa Sukkasem** (Thaksin University, Thailand)	The influence of Sulfate and Nitrate on Electricity Generation in Single-Chamber Microbial Fuel Cells
O-D-3	**Ruud A. Timmers** (Wageningen University, Netherlands)	Long term electricity generation from rhizodeposits of salt marsh species Spartina anglica in a plant microbial fuel cell
O-D-4	**Chansoo Choi** (Daejeon University, Korea)	Improved Electrical Measurement Method of the Microbial Fuel Cell Reactor
O-D-5	**Kyu-Jung Chae** (Gwangju Institute of Science and Technology, Korea)	Hydrogen production using a solar-powered microbial electrolysis cell with Platinum catalyst-free cathode
O-D-6	**Tuan Van Doan** (Yonsei University, Korea)	Metagenomic Microbial Profiling of Anode – and Cathode Biofilms from Nitrate-Reducing Wastewater –Treating Membrane-Less Microbial Fuel Cell
O-D-7	**Folusho F Ajayi** (Gwangju Institute of Science and Technology, Korea)	Photo-assisted microbial electrolysis with dye sensitized solar cell
O-D-8	**Miriam Rosenbaum** (Cornell University, U.S.A.)	Efficiencies of bio-electrocatalytic production of hydrogen from lactate using Shewanella oneidensis MR-1
O-D-9	**Yunhee Lee** (New Mexico State University, U.S.A.)	Single Chambered MFC with Two Air-cathode for Optimized Performance
O-D-10	**Alagunambi Ramasubbu** (Government Arts College, India)	Microbial Fuel Cell for Electricity Generation with in-situ Industrial Waste Water Treatment
O-D-11	**Jin-na Zhang** (Haerbin Institute of Technology, China)	Power generation from scalable permanganate-cathode microbial fuel cell – cathode degradation and recovery

Poster **Presentation**

The 2nd **Microbial Fuel Cell** Conference

Session A: Microbiology

P-A-1	**Chien-Yen Chen** (National Chung Cheng University, Taiwan)	Stable and High Energy Generation of Microbial Fuel Cell using Bacillus subtilis
P-A-2	**Windi Indra Muziasari** (Gwangju Institute of Science and Technology, Korea)	Characterization of c-type cytocrhome proteins involved in current production by Shewanella algae BrY
P-A-3	**Patrick D. Kiely** (The Pennsylvania State University, U.S.A.)	The conversion of cellulose fermentation end products to hydrogen using a defined microbial consortia and a microbial electrolysis cell.
P-A-4	**Atsushi Kouzuma** (Japan Science and Technology Agency, Japan)	Isolation and Characterization of a Mutant of Shewanella oneidensis MR-1 with Increased Ability to Adhere to Electrodes and Generate Current
P-A-5	**Shun'ichi Ishii** (J. Craig Venter Institute, U.S.A.)	Comparison of Electrode Reducing Properties of Geobacter sulfurreducens and an Enriched Consortium in an Air-Cathode Microbial Fuel Cell
P-A-6	**Gregory Hitz** (University of Maryland Biotechnology Institute, U.S.A.)	Increase in the Aerotolerance of the Electrogenic Anaerobe Geobacter Sulfurreducens Due to Over-Expression of Oxidative Stress Protection Genes Superoxide Dismutase and Catalase
P-A-7	**Eun Yeon Ryu** (Pusan National University, Korea)	Microbial Community Analysis of a Microbial Fuel Cell Enriched using Sludge from Tannery Wastewater Treatment Plant
P-A-8	**Lay-Ching Chai** (Universiti Putra Malaysia, Malaysia)	Performance of metal-reducing bacteria isolated from mangrove estuarine brackish water in electricity generation
P-A-9	**Iain Michie** (University of Glamorgan, U.K.)	Microbial community distribution in a lamellar carbon veil anode using fermentable and non-fermentable substrates
P-A-10	**Kristina Nelson** (University of Regina, Canada)	An Investigation into Changes in the Bacterial Community Structures of Microbial Fuel Cells under an Applied Load
P-A-11	**Nelli Rahunen** (University of Surrey, U.K.)	Performance of a sucrose-fed microbial fuel cell and analysis of the bacterial and archaeal anodic community
P-A-12	**Shoutao Xu** (Oregon State University, U.S.A.)	Enhanced Performance of Microbial Electrolysis Cells Using Nanostructure Decorated Electrodes
P-A-13	**S. M. Zain** (Universiti Kebangsaan Malaysia, Malaysia)	Preliminary identification of microorganism communities in microbial fuel cell (MFC) using Fluorescence In Situ Hybridization (FISH) and Polymerase Chain Reaction (PCR) Techniques.
P-A-14	**Yoshiyuki Ueno** (Kajima Technical Research Institute, Japan)	Microbial Diversity of Microflora in a Thermophilic Microbial Fuel Celland Isolation of Metal-reducing Microorganisms
P-A-15	**Hiroyuki Futamata** (Shizuoka University, Japan)	Bacterial Community Succession and Performance of Mediatorless Microbial Fuel Cell
P-A-16	**Jean-Michel Monier** (Ecole Centrale de Lyon, France)	Cathodic Communities in Microbial Fuel Cells Fed with Domestic Wastewater
P-A-17	**Jae Cheul Yu** (Pusan National University, Korea)	Electricity Generation and Microbial Diversity of Microbial Fuel Cells Fed with Different Substrates
P-A-18	**Seok Won Hong** (Korea Institute of Science and Technology, Korea)	Comparison of Microbial Community Structures of Freshwater Sediments under Current Flowing Conditions
P-A-19	**Akihiro Okamoto** (The University of Tokyo, Japan)	Cytochrome-Mediated Electron-Transfer in Biofilm of Shewanella loihica PV-4 Studied by In-vivo Electrochemistry
P-A-20	**Liew Pauline Woan Ying** (Malaysian Nuclear Agency, Malaysia)	Microbial Diversity of a Microbial Fuel Cell Enriched with Microbial Consortium from Palm Oil Mill Processing Wastewater
P-A-21	**Hyunjung Kim** (Gwangju Institute of Science and Technology, Korea)	Isolations and Identifications of Bacteria from Psychrophilic- and Halophilic Iron Reducing Environments



Session B: Electrochemistry & Material Science

P-B-1	**Koichi Nishio** (University of Tokyo, Japan)	Microbial solar cell utilizing natural communities
P-B-2	**Mario Mitov** (South-West University, Bulgaria)	Improvement of Candida melibiosica Yeast – Carbon-Type Anode Interaction in a Two-Chamber Biofuel Cell
P-B-3	**Yolina Hubenova** (University of Plovdiv, Bulgaria)	Lactobacillus Consortium as a Biocatalyst in Mediatorless Microbial Fuel Cell
P-B-4	**F. Zhao** (University of Surrey Guildford, U.K.)	Direct Electron Transfer between Bacteria and Electrode
P-B-5	**Tunc Catal** (National University of Ireland, Ireland)	Electrochemical Characterization of Electroactive Bacteria Grown at Different Physiological Conditions
P-B-6	**Yong Yuan** (Konkuk University, Korea)	A conductive polymer used both on anode and on cathode in a single-chamber microbial fuel cell
P-B-7	**Jung Rae Kim** (University of Glamorgan, U.K.)	Temporal and Spatial Monitoring of Continuously Operated Tubular Microbial Fuel Cells by Electrochemical Impedance Spectroscopy
P-B-8	**Godfrey Kyazze** (University of Glamorgan, U.K.)	Influence of catholyte pH on hydrogen production from acetate using a microbial electrolysis cell
P-B-9	**Mi-Jin Choi** (Gwangju Institute of Science and Technology, Korea)	Influence of membrane biofouling on performances of microbial fuel cells
P-B-10	**Eunkyoung Ji** (Gwangju Institute of Science and Technology, Korea)	Effect of ion-exchange membranes on the performance of microbial fuel cell operated with different electrolyte conditions
P-B-11	**Sang-Eun Oh** (Kangwon National University, Korea)	Sustained Power Generation by Microbial Fuel Cells: Effects of Applied Voltages and Oxygen Intrusion to the Anode
P-B-12	**Sokhee Jung** (Pennsylvania State University, U.S.A.)	Electrochemistry of Anode Biofilm in Air-cathode MFCs Operated with Different pH Condition
P-B-13	**Youngmi Yi** (Gwangju Institute of Science and Technology, Korea)	Electrodeposited Pd nanostructure as effective electrocatalysts in direct bio-ethanol fuel cells
P-B-14	**Ye Eun Kim** (Gwangju Institute of Science and Technology, Korea)	Electrocatalytic oxidation of L-ascorbic acid on a modified carbon electrode
P-B-15	**Jeffrey J. Fornero** (Washington University in St. Louis, U.S.A.)	Ion Exchange Membrane Influence on Ohmic Resistance
P-B-16	**Soo Jung Choi** (Pusan National University, Korea)	Electrochemical performance of microbial fuel cell with various electrode materials, thickness and configurations
P-B-17	**Hongqiang Hu** (Oregon State University, U.K.)	Hydrogen Production in Microbial Electrolysis Cells Using Precious-Metal-Free Cathode Catalysts (NiMo, NiW)

Session C: System Development

P-C-1	**Chi-Yuan Lee** (National Taiwan Ocean University, Taiwan)	Power Generation and Internal Resistance of Microbial Fuel Cell Affected by Interactions between Electrode Distance and Influent Fuel Concentration
P-C-2	**Jamie Hinks** (Newcastle University, U.K.)	Interactions between external resistance, organic load and fuel type in a single chambered air-cathode batch-fed microbial fuel cell
P-C-3	**Yu-jin Lee** (Korea Institute of Energy Research, Korea)	Enhancing Factors of Electricity Generation in a Microbial Fuel Cell Using Geobacter sulfurreducens
P-C-4	**Kevin W. McNamara** (Trophos Energy Inc., U.S.A.)	Commercial Development of Sediment-Based Microbial Fuel Cell
P-C-5	**Kyungmi Chung** (Hokkaido University, Japan)	Effect of biofilms and chemical precipitates in the cathode electrode on the continuous MFC performance
P-C-6	**Lay-Ching Chai** (Universiti Putra Malaysia, Malaysia)	Construction and performance of a charcoal air-cathode microbial fuel cell
P-C-7	**Shi-Jie You** (Harbin Institute of Technology, China)	Advective U-shaped Microbial Fuel Cell for Stable Power Production in the Absence of Phosphate Buffer
P-C-8	**Kyoung-Yeol Kim** (Gwangju Institute of Science and Technology, Korea)	Hybridization of Glucose Enriched and Propionate Enriched Anodes to Reduce Electron Losses in Glucose-Fed Microbial Fuel Cells (MFCs)
P-C-9	**Krishna P. Katuri** (Newcastle University, U.K.)	Hybrid reactor configuration for bio-electricity generation and wastewater treatment
P-C-10	**Takefumi Shimoyama** (The University of Tokyo, Japan)	Phylogenetic analyses of microbial communities developed in a cassette-electrode microbial fuel cell
P-C-11	**He Lee** (Harbin Institute of Technology, China)	Continuous Electricity Generation by a Graphite Granule Baffled Air-cathode Microbial Fuel Cell
P-C-12	**Daehee Kim** (Gwangju Institute of Science and Technology, Korea)	Harvesting Bioelectricity using Hollow Fiber Microbial Fuel Cell

Session D: MFC Application

P-D-1	**Liu Hong** (Beihang University, China)	Generate Electricity Directly Using Human Feces Via Microbial Fuel Cell
P-D-2	**Xiao Benyi** (Research Center for Eco-Environmental Sciences, China)	Treatment of sewage sludge with microbial fuel cell
P-D-3	**Tunc Catal** (Oregon State University, U.S.A.)	Simultaneous Electricity Generation and Selenium Removal from Wastewater Using Mediator-less Microbial Fuel Cells
P-D-4	**Jin-Dal-Rae Choi** (Korea Advanced Institute of Science and Technology, Korea)	Electricity generation in microbial fuel cells using Shewanella putrefaciens and food waste
P-D-5	**Kee Suk Nahm** (Chonbuk National University, Korea)	Microbial Electricity Generation of Diversified Carbonaceous Electrodes
P-D-6	**Tunc Catal** (National University of Ireland, Ireland)	Electricity generation in microbial fuel cells from leachate produced during anaerobic digestion of grass silage
P-D-7	**Yongwon Jeon** (Konkuk University, Korea)	Electricity generation from animal wastewater in microbial fuel cells
P-D-8	**Joo-Youn Nam** (Korea Advanced Institute of Science and Technology, Korea)	Inhibition of electricity production by ammonia in single-chamber microbial fuel cells
P-D-9	**Kiyoshi Omine** (Kyushu University, Japan)	Development of Compost Type of Microbial Fuel Cell with Anaerobic Biodegradation
P-D-10	**Shino Ishii** (J. Craig Venter Institute, U.S.A.)	Wastewater treatment of primary clarifier effluent using an air-cathode microbial fuel cell
P-D-11	**Joung Yee Yoon** (Hallym University, Korea)	Effect of Wastewater Sludge Pre-treatment Methods on the Electricity Generation in a Microbial Fuel Cell
P-D-12	**Hyung Joo Kim** (Konkuk University, Korea)	Practical operation of microbial fuel cells at a hypereutrophic lake
P-D-13	**Yujie Feng** (Harbin Institute of Technology, China)	Comparison of Electricity Generation of Nine Amino Acids in Microbial Fuel Cells
P-D-14	**Baogang Zhang** (Peking University, China)	Factors Affecting the Performance of Microbial Fuel Cells for Sulfide and Vanadium (V) Treatment
P-D-15	**Jae Cheul Yu** (Pusan National University, Korea)	Power Production Comparison of Air-Cathode Microbial Fuel Cell According to Different Types of Membrane
P-D-16	**Tae-Sik Hwang** (KORBI, Co., Ltd., Korea)	Biomonitoring System using Microbial Fuel Cell
P-D-17	Sebastia Puig (University of Girona, Spain)	Start-up assessment of two Microbial Fuel Cells for nutrient removal from wastewaters
P-D-18	**Keiichi Kubota** (National Institute for Environmental Studies, Japan)	Treatment of sucrose-containing wastewater by a Single-chamber Microbial Fuel Cell at 20°C
P-D-19	**Junyeong An** (Gwangju Institute of Science and Technology, Korea)	A Combination of Sediment Microbial Fuel Cell (SMFC) and Simply Structured Floating-type Microbial Fuel (FT-MFC)
P-D-20	**Jae kyung Jang** (Rural Development Administration, Korea)	Limiting factors for current generation form MFCs
P-D-21	**Jong-Hwan Shin** (Seoul National University, Korea)	A Novel Bio-reformer Converting Formic Acid to Hydrogen for Use in Fuel Cells

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