

# KSEAJ 創立 25 周年 - AKC2008 Program

Oct. 24 (Fri.)

09:00 – 10:00

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**Registration**

10:00 – 10:30

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**Opening Ceremony**

Seminar Room 202

Session Chair: 沈 在東 副会長

- 国旗敬意と科学技術の信条
- 科協 25 周年プレゼンテーション
- 会長挨拶  
     玄 光男 早稲田大学教授
- 駐日大韓民国特命全権大使 祝辞  
     権 哲賢 特命全権大使
- 韓国科学技術団体総連合会長 歓迎辞  
     李 基俊 総連合会 会長
- 在日本大韓国民 民団中央本部団長 祝辞  
     鄭 進 民団中央本部 団長

10:30 – 12:30

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**創立 25 周年/ AKC2008 特別講演:**

Seminar Room: 202

Session Chair: 玄 光男 早稲田大学教授

日本側: 首都大学東京・西沢潤一学長

"Development and Research on Semiconductors in Japan"

韓国側: 浦項工科大学・国立ナノマテリアル技術センター・丁潤夏所長

"Role of Nanotechnology Infrastructures in Korea:

Towards new Global R&DB Collaborations"

12:30 – 13:30

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**Lunch**

13:30 – 14:50

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**Symposium-F1- Ecological Vehicles & Energy (EVE-1)**

Seminar Room: 306

Session Chair: Dr. YongKil Kim, KSEAJ, Japan

EVE-1a	ChoongSik Bae	Korea	Advanced	Korea	Emission Reductions by Multiple Injection Strategy in a
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		Institute of Science. Technology		Direct-Injection Diesel Engine
EVE -1b	SangKyu Kim, Tomoyuki Wakisaka	Mazda Motor Corporation, Osaka City University	Japan	Development of the Numerical Method of Engine Combustion Analysis for Realizing Next-Generation Clean Diesel Engines-Three-dimensional Combustion Simulation by Means of an Original GTT Code
EVE -1c	JoonDugk Gong	Ritsumeikan University	Japan	Simultaneous Reduction of Diesel Particulate Matter and NOx based on an Electro Chemical Process.
EVE -1d	ByungChul Choi, HwanNam Kim	Chonnam University	Korea	Effects of Bio-Diesel and Bio-ethanol Blended Diesel Fuel on Emission of Particulate Matters from CRDI Diesel Engine

**Symposium-F1 - Intelligent Manufacturing & Robotics (IMR-1)**

Seminar Room: 307

Session Chair: Dr. MooYoung Jung, Ulsan Nat. Inst. of Sci. &amp; Tech., Korea

IMR-1a	Hark Hwang	KAIST	Korea	Inventory and Production Management in Reverse Logistics
IMR-1b	KwangNam Hyun	Waseda University	Japan	Advanced Planning and Scheduling: Evolutionary Algorithm Approach
IMR-1c	Seren Oz Mehmet Tasan	Waseda University	Turkey	Resource-Constrained Projects Scheduling with Positive and Negative Cash Flows
IMR-1d	GeonHa Kim	Myongji University	Korea	Strategic Management of Technology -Forecasting Market Demands at the Stage of Ideation in NPD-
IMR-1e	Xinjie Yu	Tsinghua University	China	Pareto Competition Based Evolution Strategy for Two-objective Optimization Design of SMES Solenoids

14:50 – 15:00

Coffee Break

15:00 – 16:20

**Symposium-F2 - Material Science & Nanotechnology (MSN-1)**

Seminar Room: 306

Session Chair: Dr. SangKuk Woo, Korea Institute of Energy Research, Korea

MSN-1a	JaeHyuk Park	National Institute of Advanced Industrial Sci. and Tech.	Japan	Developments and possibilities of nanocomposite systems prepared by aerosol deposition method
MSN-1b	Seiji Takahashi	Japan Fine Ceramics Center	Japan	Synthesis of Porous Alumina Powder by Spray Pyrolysis method
MSN-1c	SangKuk Woo	Korea Institute of Energy Research	Korea	Fabrication and Characteristics of Asymmetric Dense Oxygen Transport Membrane
MSN-1d	KeeHyun Kim	National Institute. of Material Science	Japan	New novel coating process using high-velocity impact

**Symposium-F2 - Intelligent Manufacturing & Robotics (IMR-2)**

Seminar Room: 307

Session Chair: Dr. Hark Hwang, Korea Advanced Institute of Science. Technology, Korea

IMR-2a	MooYoung Jung	Ulsan Nat. Inst. of Sci. & Tech.	Korea	Fractal Approach to Manufacturing Systems
IMR-2b	Lin Lin	Waseda University	Japan	Robot-based Assembly Line Balancing Model by

				Evolutionary Technology
IMR-2c	Kenichi Ida	Maebashi Inst. of Tech.	Japan	遺伝的探索法によるリエントラントフローショップ・スケジューリング
IMR-2d	Yinzhen Ri	Web Technology	China	XML データ検索エンジンによる「情報の見える化」ソリューション開発
IMR-2e	SangSu Han	Osaka International University	Japan	Fuzzy TOC

16:20 – 16:30

Break

16:30 – 17:30

**Poster Session F3**

Session Chair: 禹 濟泰 副会長

PTR-1: Room: 202

**- Ecological Vehicles & Energy**

PTR-1	YongJu Lee	Hokkaido University	Japan	Numerical Simulation of Liquid Water and Gas Flow in PEM Fuel Cell using Lattice Boltzman Method
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**- Next Generation Network & Mobiles**

PTR-2	KiDuk Kwon	Waseda University	Japan	임베디드 시스템에서의 고해상도 타이머 지연에 대한 성능 분석
PTR-3	JunO Song	Waseda University	Japan	A Voice Packet Processing for QoS of VoIP using Genetic Algorithm
PTR-4	KyungHwan Kim	Osaka University	Japan	A New Statistical model of Scintillation Considering Fluctuation Speed and its Application to Performance Evaluation of WLAN signal transmission

**- Bioscience and Biotechnology**

PTR-5	KyeungIl Park	自然科学研究機構 基礎生物学研究所、 分子遺伝学研究部門	Japan	アサガオの花弁と種皮の着色、種皮のトライコーム形成を制御する bHLH 転写因子
PTR-6	JaeHyek Choi	University of Texas Health Sci. Center Medical School	Japan	マウス胎仔の生存における $20\alpha$ -水酸化ステロイド脱水素酵素の役割
PTR-7	JeongIk Lee	Tokai University	Japan	A new method for manufacturing immunoisolated bio-artificial pancreas with cell sheet engineering
PTR-8	JeongIk Lee	Tokai University	Japan	軟骨細胞を用いた免疫錯覚バイオ人工膵島の開発
PTR-9	ChanGi Back	RIKEN	Japan	Molecular mechanism of heat shock response probed by FCS and dual-color FCCS
PTR-10	WoonKwan Hyun	The Cancer Institute Hospital	Japan	The Effect of Protamine on Pulmonary Artery Pressure during Neutralization of Heparin
PTR-11	BongKeun Choi	Chubu University	Japan	辛夷(シンイ)由来化合物の HASMC 増殖抑制効果
PTR-12	SunSil Choi	Chubu University	Japan	Magnolol enhances adipocyte differentiation and glucose uptake in 3T3-L1 cells
PTR-13	YoungSil Lee	Chubu University	Japan	Effects of white Korean ginseng extracts on obesity in high-fat diet-induced obese mice
PTR-14	ShunYan Li	Chubu University	Japan	コウボク由来化合物の脂肪細胞分化促進効果
PTR-15	TaeSun Kim	Nagoya City University	Japan	ATBF1 is responsible for the survival signal of neuron during differentiation of P19 cells
PTR-16	ByungGeun Ha	University of Tokyo	Japan	The Profiling of Osteoclast Membrane Proteins by LC-MS/MS
PTR-17	JaeYeol Joo	University of Tokyo	Japan	Activation of NMDA receptors increases proliferation and differentiation of hippocampal neural progenitor cells

PTR-18	Sungjin Lee	University of Tokyo	Japan	Regulation of p53 by activated protein kinase C $\delta$ during nitric oxide induced dopaminergic cell death
PTR-19	HyunSoo Cho	University of Tokyo	Japan	Interference of quorum sensing and virulence of the rice pathogen <i>Burkholderia glumae</i> by an engineered endophytic bacterium

### - Material Science & Nanotechnology

PTR-20	GomBai Chon	Tohoku University	Japan	Characterization of Crystal Structure and Magnetic Properties of FCC- and HCP-Ni Powders Synthesized by using the Polyol Process
PTR-21	SangHwui Hong	Tohoku University	Japan	Growth and characterization of high quality zinc oxide single crystal
PTR-22	WonJong Hong	Kyoto University	Japan	Direct NO decomposition on Ba catalysts supported on Ce-base mixed oxides
PTR-23	TaekKyun Jung	Innovation Plaza Miyagi, Japan	Japan	Effect of Nb and Sn content on Microstructure, Young's modulus and mechanical properties in TiNbSn alloys
PTR-24	SungChul Kim	Tohoku University	Japan	Thermal Stability and Mechanical Properties of Glassy $Zr_{60}Al_{10}Ni_{10}Cu_{20}$ Alloy Rods with Diameters of 20 mm
PTR-25	SungHoon Kim	Tohoku University	Japan	Purification and modification of carbon nanocapsules as a magnetic carrier for MRI Contrast Agent
PTR-26	ChiWoo Lee	Tohoku University	Japan	Synthesis and photoluminescence of Sr doped $(Ba,Sr)_2ZnS_3:Eu^{2+}$ Red Phosphor Materials
PTR-27	GwangSeop Lee	Tohoku University	Japan	A study of the lanthanum separation with extraction chromatography
PTR-28	SeonHong Lee	Kyoto University	Japan	NOx decomposition of the N-doped TiOx films using RF sputtering in air
PTR-29	EunJu Lim	Tokyo Institute of Technology	Japan	Probing of evolution of channel region in pentacene field-effect transistor using optical second harmonic generation measurement
PTR-30	TaeHong Min	Tokyo Institute of Technology	Japan	Difference of Ionic Compounds at the Conditions of Electric Field In Indoor Air
PTR-31	ChiWon Moon	Kyoto University	Japan	フェムト秒レーザー照射によるルビー内局所領域におけるマイクロパターン作製
PTR-32	SeungMo Noh	Tohoku University	Japan	Fabrication of Co-Pt perpendicular magnetization film suitable for STT microwave oscillation element
PTR-33	KunSu Son	Tohoku University	Japan	Structure, Thermal Stability and Mechanical Properties of Jointed Zr-Cu-Al-Ni/Cu-Zr-Al-Ag Glassy Alloy Rod Produced by a Metallic Liquid Joining Method
PTR-34	WheeSung Kim	Osaka University	Japan	Growth behavior of intermetallic compounds with the diffusion reaction in the SnAgCu solder joints
PTR-35	RockHoon Jung	Osaka University	Japan	Effect on the electrode durability of composite carbon support with graphite structure for PEMFC
PTR-36	JooShin Park	Osaka University	Japan	Development of New Theory its Application to Secondary Buckling Behaviour of Curved Shell
PTR-37	DoHyun Park	Osaka University	Japan	Mechanical Treatment of Initial Imperfection by Welding Evaluation for Compressive Behavior of Butt-Welded Plate

### - Intelligent Manufacturing & Robotics

PTR-38	MinSung Seok	Waseda University	Japan	Improvement in Robot-based Assembly Line System by Genetic Algorithm
PTR-39	JeongEun Lee	Waseda University	Japan	Multiobjective optimization of Reverse Logistics Network Problem using Adaptive-weight Approach
PTR-40	SuJin Jin	Waseda University	Japan	Multi-product Two-stage Transportation Problem considering Inventory Using Priority-based GA
PTR-41	HuiSang Lee	Waseda University	Japan	Automated guided vehicle dispatching in flexible manufacturing system
PTR-42	Feng Wen	Waseda University	Japan	A Multiobjective Genetic Clustering Method to Preprocess Traffic Network for Car Navigation System
PTR-43	ReaKook Hwang	Waseda University	Japan	Integrated Procedure for Balancing and Sequencing Problem in Mixed-model Assembly Lines
PTR-44	SangHeon Han	Nagoya University of commerce & business	Japan	A Genetic Algorithm & AHP for Management Decision Making : case of Portfolio Selection Problem

## - Other Research Area

<b>PTR-45</b>	DaHee Hong	Kyoto University	Japan	画像データを用いた車両追従挙動への影響要因に関する基礎的分析
<b>PTR-46</b>	DukJa Paeng	National Institute for longevity Science	Japan	Augmented Immunological Activities of Recombinant Lipopolysaccharide Possessing the Mannose Homopolymer as the O-Specific Polysaccharide
<b>PTR-47</b>	ByungKi Kim, JungBok Jo	Waseda University, DongSeo University	Japan, Korea	Intelligent Route Selection in Car Navigation Systems by Multiobjective Genetic Algorithms
<b>PTR-48</b>	YongJu Suh	Waseda University	Japan	High Dynamic Range Variable Gain Amplifier Using 130 nm CMOS Technology for TripleBand W-CDMA Applications
<b>PTR-49</b>	YoungJu Kwak	Chiba University	Japan	A Study on the Production of Vulnerability Map for Floods Using GIS and RS; A Case Study in Nackdong Basin, S. Korea

17:45 – 19:30

Banquet 司会 金武完 副会長

## AKC2008-Banquet

(Room: 320)

Oct. 25 (Sat.)

09:30 – 12:30

**ULTRA Program-UTP1- Material Science & Nanotechnology**

URATLA (Universal Linkage for Top Research Advice) program is closed session organized by KOFST.

Seminar Room: 303

Session Chair: **Dr. WooSik Kim**, Prof. Emeritus, Yonsei University

Speaker:

**Dr. SeongHo Yoon**

Institute of Material Chemistry Engineering, Kyushu University, Japan

09:30 – 10:50

**Symposium-S1- Bioscience and Biotechnology (BST-1)**

Seminar Room: 202

Session Chair: **Dr. JeTae Woo**, Chubu University, Japan

<b>BST-1a</b>	ChaGyun Jung	National Center for Geriatrics and Gerontology	Korea	The Role of ATBF1 in neurogenesis, cancer and Alzheimer's Disease
<b>BST -1b</b>	HwiYool Kim	Konkuk University	Korea	Recovery from Spinal Cord Injury by UCB-derived Stem cells in Canine Model
<b>BST -1c</b>	JeongIk Lee	Tokai University School of Medicine	Japan	A New method for cell transplantation without using an immunosuppressants
<b>BST -1d</b>	JeTae Woo	Chubu University	Japan	Antiresorptive and Anabolic Agents from Natural Products that Regulate Bone Metabolism
<b>BST -1e</b>	CheorlHo Kim	Sungkyunkwan University	Korea	Glycobiology and Liver Cancer Mechanism Uncovered and Prospects for Prevention and Curing

**Symposium-S1- Ecological Vehicles & Energy (EVE-2)**

Seminar Room: 311

Session Chair: **Dr. ChoongSik Bae**, KAIST, Korea

<b>EVE-2a</b>	Yusmady Mohamed Arifin, Masataka Arai	Gunma University	Japan	Availability of Hot Surface Deposition Test for Bio-diesel Fuel Deposit in Engine
<b>EVE -2b</b>	Yasuo Moriyoshi	Chiba University	Japan	Future Gasoline Engine Concepts: Combination of Direct Injection, High Compression Ratio, HCCI, Lean Burn and Supercharge Technologies
<b>EVE -2c</b>	OckTaeck Lim, Norimasa Iida	Ulsan University, Keio University	Korea	Effect of Thermal Stratification on HCCI Combustion by Using Rapid Compression Machine
<b>EVE -2d</b>	YongKil Kim	KSEA.J	Japan	車社会に関わる環境・エネルギー問題（人・車・原動機の歴史の変遷）

10:50 – 11:10

Coffee Break

11:10 – 12:30

**Symposium-S2- Bioscience and Biotechnology (BST-2)**

Seminar Room: 202

Session Chair: **Dr. MoonHi Han**, Proteogen, Inc, Korea

<b>BST-2a</b>	Byungyoon Cha	Chubu University	Japan	An inhibitory effect of chrysoeriol on PDGF-induced proliferation and PDGF receptor signaling in human aortic smooth muscle cells
<b>BST -2b</b>	JongSeok Park Krata Kenji	Tokyo University	Japan	Remarkable Promotion of Lettuce Growth by Application of Micro-Bubbles to Hydroponics Culture System
<b>BST -2c</b>	MoonHi Han	Proteogen. inc	Korea	ProLinker™ Surface Technology and Its Application for Biosensors and Protein Chip
<b>BST -2d</b>	GouChol Pok	Yanbian University of Science & Technology	China	Amino Acid Physicochemical Properties and Protein Secondary Structure Conformation

**Symposium-S2- Ecological Vehicles & Energy (EVE-3)**

Seminar Room: 311

Session Chair: **Dr. OckTaeck Lim**, Ulsan University, Korea

<b>EVE-3a</b>	ByeongRog Shin	Changwon National University	Korea	Numerical Study on Shock-Cavitation Bubble Interaction Phenomena
<b>EVE -3b</b>	JiCheng Bai	Harbin Institute of Technology	China	Application of energy saving pulse power on high speed electrical discharge holing
<b>EVE -3c</b>	YingJiu Jin	Yanbian University	China	Effect of disorder and surface on the half-multiplicity of Heusler Co <sub>2</sub> FeSi alloy
<b>EVE -3d</b>	HyunWoo Roh	OM Environmental Planning	Japan	Development and monitoring of solar desiccant cooling system for office building

12:30 – 13:30

Lunch

13:30 – 16:30

**ULTRA Program-UTP2- Bioscience & Biotechnology**

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Seminar Room: 303

Session Chair: **Dr. WooSik Kim**, Prof. Emeritus, Yonsei University

Speaker:

**Dr. JeTae Woo**,  
Chubu University, Japan

**13:30 – 14:50**

**Symposium-S3 - Material Science & Nanotechnology (MSN-2)**

Seminar Room:202

Session Chair: **Dr. ByungKoog Jang**, National Institute of Material Science, Japan

<b>MSN-2a</b>	SukJoong Kang	Korea Advanced Institute of Science. Technology	Korea	Microstructural Development by Grain Boundary Structure Transition in Ceramics
<b>MSN-2b</b>	MiJeong Kim	National Institute. of Material Science	Japan	Photoinduced mass transportation of photochromic azobenzene polymer
<b>MSN-2c</b>	ByungKoog Jang	National Institute. of Material Science	Japan	Thermal Properties of Nano-Pore Dispersed Zirconia Coatings Fabricated by Electron Beam PVD

**Symposium-S3- Next Generation Network & Mobiles (NGN)**

Seminar Room: 311

Session Chair: **Dr. MooWan Kim**, Tokyo University of Information Science, Japan

<b>NGN-a</b>	YongJin Park	Hanyang University	Korea	Future Internet Research Activities in Continents
<b>NGN-b</b>	MooWan Kim	Tokyo University of Information Sciences	Japan	Field Data Collection Service based on Wireless Ubiquitous Network
<b>NGN-c</b>	MiRang Park	Mitubishi Electric Corporation	Japan	An Effective Light-path Setup Scheme for Dynamic Traffic in Multi-ring Wavelength-routed networks
<b>NGN-d</b>	KwangSik Kim	Tokyo University of Information Sciences	Japan	Service Creation using Parlay based on Wireless Ubiquitous Network

**14:50 – 15:00**

**Coffee Break**

**15:00 – 16:30**

**Poster Session-S4**

Session Chair: 禹 濟泰 副會長

PTR-2: Room: 202

**- Ecological Vehicles & Energy**

<b>PTR-1</b>	YongJu Lee	Hokkaido University	Japan	Numerical Simulation of Liquid Water and Gas Flow in PEM Fuel Cell using Lattice Boltzman Method
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**- Next Generation Network & Mobiles**

<b>PTR-2</b>	KiDuk Kwon	Waseda University	Japan	임베디드 시스템에서의 고해상도 타이머 지연에 대한 성능 분석
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## - Bioscience and Biotechnology

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## - Material Science &amp; Nanotechnology

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### - Intelligent Manufacturing & Robotics

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PTR-44	SangHeon Han	Nagoya University of commerce & business	Japan	A Genetic Algorithm & AHP for Management Decision Making : case of Portfolio Selection Problem

### - Other Research Area

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PTR-47	ByungKi Kim, JungBok Jo	Waseda University, DongSeo University	Japan, Korea	Intelligent Route Selection in Car Navigation Systems by Multiobjective Genetic Algorithms
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