



Joongmyeon Bae

(Professor, Department of Mechanical Engineering, KAIST)

Date of birth 1967, 2, 28, Seoul

Education

1989 Seoul National University, Inorganic Materials, B.S.

1991 Seoul National University, Inorganic Materials, M.S.

1996 Imperial College, Material Science, Ph.D

Career

1996~1999 Researcher, Electro Technical Lab.(ETL) of NEDO, Japan

1999~2002 Senior researcher, Argonne National Lab., USA

2002~2006 Assistant Professor, Mechanical engineering, KAIST

2005~ Expert Committee Member, KAIST-Daedeok special R&D zone

2006~2009 Associate Professor, Mechanical engineering, KAIST

2006~ Organizing Committee Member, Ministry of trade, industry &Energy, Hydrogen-fuel cell Division

2006~ Organizing Committee Member, Ministry of trade, industry &Energy Future Automobile Division

2006~ Scientific Committee Member, International energy Agency Fuel Cell Division

2006~ Advisory Committee Member, POSCO

2006~ Scientific Committee Member, KECS Fuel Cell Division

2006~ Scientific Committee Member, Asian Solid State Ionics

2006~ Scientific Committee Member, ASME Fuel Cell Conference,

2007~ Director, KSME Thermal Engineering Division

2007~ Editor, KSAE

2008~ Organizing Committee Member, THERMEC Hydrogen and Fuel Cell Session

2008~ Deputy director, Office of university-industry cooperation of UNITEF

2009~ Full Professor, Mechanical engineering, KAIST

2009~ Founder of H&Power Inc. and current technical advisor.

2009~2011 Director, Clean energy research institute of KAIST

2011~ Associate member, The Korea Academy of Science and Technology

2011~ Organizing Committee member of the International Symposium on Green Manufacturing and Applications

2011~ Program Committee for Nanotechnology for Energy member of the International Nanotech Symposium & Nano-Convergence Expo in Korea

2013~ Director, Office of university-industry cooperation of KAIST

2013~ Member of the international Board of advisors for the European Fuel Cell Forum

Address

7111, West Wing,
Department of Mechanical
Engineering,
Korea Advanced Institute of
Science and Technology
(KAIST),
Guseong-dong,
Yuseong-gu,
Daejeon,
Republic of Korea

Tel (042) 350-3045

Fax (042) 350-8207

E-mail jmbae@kaist.edu

Awards

- 1996 National Scholarship for study abroad
- 2000 National Fuel Cell Research Prize
- 2001 R&D 100 Award
- 2002 Federal Laboratory Consortium(FLC) Award for Excellence in Technology Transfer
- 2005 Best Laboratory awarded from Korea Ministry of Commerce Industry and Energy
- 2006 Energy Week Excellent Paper awarded from Korean Minister of Commerce Industry and Energy
- 2006 Excellent Lecturer awarded from Mechanical Engineering, KAIST (Twice in 2006, Once in 2007)
- 2009 Excellent Research Case 50 selected from Korea Institute of Industrial Technology Evaluation and Planning
- 2009 A Man of National Merit in Excellent Capital Goods Development awarded from Korea Ministry of Knowledge Economy
- 2009 A man of National Merit in Academic-Industrial Cooperation awarded from Korea Ministry of Education, Science and Technology
- 2009 Excellent Advisory Professor in the Sector of Patent Strategy Establishment During the Campus Patent Strategy Universiade (Korea Engineering Academy & the Korean Intellectual Property Office)
- 2012 2nd KAIST EEWS Business Plan Competition 2011
- 2012 Green Technology Prize awarded from Korea Ministry of Education, Science and Technology
- 2014 Excellence Award in KAIST Research Prize

Research Area

- Electrode Development for the Improvement of Fuel Cell Efficiency
- Development of New Electrolytes of Fuel Cell
- Fuel Reforming System Development for Fuel Cell on board Vehicles
- Solid Oxide Fuel Cell System
- Development of ceramic processes for Solid Oxide Fuel Cell System