

## **SEUNG-HYUN KIM**

Associate Professor of Engineering

School of Engineering, Box D, 184 Hope St, Brown University, Providence, RI 02912

Phone: 401.863.5230; Fax: 401.863.9025; e-mail: [seunghyun\\_kim@brown.edu](mailto:seunghyun_kim@brown.edu)

SEUNG-HYUN KIM is an associate professor of engineering at Brown University. Prior to joining Brown, he was a senior executive vice president of MEMS related company and was the head of Research and Development Center. He has been active in ferroelectric, dielectric and piezoelectric thin films for electronic devices for the last 30 years.

Prof. Kim's research interests are in the area of piezoelectric and energy materials development and MEMS processing. He has published over 200 refereed journal papers and 300 presentations including 100 invited presentations, and has served as an organizing committee member of many international conferences. Prof. Kim's educational and academic activities cover experimentation and applications of electronic materials and devices.

### **a. Professional Preparation**

- ❑ B.S., Yonsei University (Seoul, Korea), Ceramic Engineering, 1989
- ❑ M.S., Yonsei University (Seoul, Korea), Ceramic Engineering, 1991
- ❑ Ph.D., Yonsei University (Seoul, Korea), Ceramic Engineering, 1996
- ❑ Master of Arts (ad eundem), Brown University, 2013

### **b. Appointments**

- ❑ 2011 to present: *Associate Professor*, School of Engineering, Brown University
- ❑ 2010 to 2011: *Executive Vice President*, MEMS Solution Inc.
- ❑ 2008 to 2009: *Invited Visiting Professor*, Dept. of Aeronautics and Astronautics, MIT
- ❑ 2004 to 2005: *Adjunct Professor*, Dept. of Physics, Kookmin University
- ❑ 2000 to 2010: *Senior Executive Vice President*, INOSTEK Inc.
- ❑ 1997 to 2000: *Post-Doc. and Research Scientist*, North Carolina state University (North Carolina)
- ❑ 1996 to 1997: *Senior Research Scientist*, Engineering Research Institute, Yonsei University (Korea)
- ❑ 1994 to 1996: *Research Scientist*, Division of Ceramics, Korea Institute of Science and Technology (Korea)
- ❑ 1993 to 1994: *Lecturer*, Ceramic Engineering, Yonsei University (Korea)
- ❑ 1991 to 1996: *Research Scientist*, Engineering Research Institute, Yonsei University (Korea)

### **c. Publications (200 peer-reviewed journal papers, 13 patents, and 300 presentations (including 100 invited presentations) in the international conferences)**

#### **d. Synergistic Activities (selected)**

- Program chair and committee of international conferences and symposia;
- Panel review member and project manager: Korea Evaluation Institute of Industrial Technology (2005 – present), Korea Institute of Energy Technology Evaluation and Planning (2005 – present), NSF, DOE (~ present) etc.
- Manuscript reviewer for the following journals: J. of Applied Physics, Applied Physics Letters, J. of Smart Materials and Structures, Materials Letters, Thin Solid Films, Sensor and Actuators, J. of

Electroceramic Society, Nano Technology, J. of Materials Science, Nano Energy, Nano Letters, ACS series, Royal Chemical Society series etc.

- Head of research center at industry; Transfer of science into industrial applications, managing and training of many scientist from R&D to QC level (2000-2011).
- Collaboration with industry: Motorola, LG Electronics, Inc., AVAGO Technologies, Kojundo Chemicals Laboratory, Samsung Electro-Mechanics, Samsung Advanced Institute of Technology, Texas Instrument, Philips, Oce Technology, Hynix, Fujitsu Laboratory, Xaar, Panasonic, Xerox etc.
- International Scientist of the Year in 2004.