

# ICMAP 2018

The 7th International Conference on Microelectronics and Plasma Technology

July 24–28, 2018 / Songdo ConvensiA, Incheon, Korea

---

## **Prof. Han S. Uhm**

New Industry Convergence Technology R&D Center,  
Ajou University, Republic of Korea



---

### **Education**

1968 B. S. in Physics, Seoul National University

1973 M. S. in Physics, University of Maryland, USA

1976 Ph. D. in Physics, University of Maryland, USA

### **Experience**

1976 – 1978 Senior Research Associate in Department of Physics, University of Maryland

1978 – 1999 Executive Research Scientist in US Naval Surface Warfare Center

1999 – 2010 Professor in Ajou University, Korea

2003 – 2006 Director of Plasma Technology, Institute of Advanced Engineering, Korea

2006 – Lifetime Member of Korean Academy of Science and Technology

2010 – 2015 Chair professor in Kwangwoon University, Korea

2015 – 2016 Research professor in GIST, Korea

2017 – Present Research professor in Ajou University, Korea

### **Professional Activity**

Member of American Physical Society

Member of Korean Physical Society and

# ICMAP 2018

The 7th International Conference on Microelectronics and Plasma Technology

July 24-28, 2018 / Songdo ConvensiA, Incheon, Korea

---

Senior member of IEEE

## **Research Area**

Researches on many areas in plasma field, carrying out basic studies related to shooting down of missiles. These researches include (1) charged particle beam propagation, (2) high power microwave generations, (3) neutron propagation, (4) electrical discharges in high pressure including display devices, (5) advanced material productions by plasma, and (6) plasma chemical reaction studies, resulting more than 470 SCI papers and more than 100 patent registrations in US, Korea and other countries. Present research concentrates on mass decontamination of biological and chemical warfare agents and on applications of the new technologies to industries, environments, energy, bio, agriculture and livestock areas. Awarded fifth Chungkwan award from Alumni Association of Seoul National University.