

Resume

Name: Seong Soo Choi

Director,
Research Center for Nano bioscience,
Honorary Professor of Physics and Nanoscience
SunMoon University and Sungkyunkwan University



Expertise:

Nanofabrication of Plasmonic Nanopore for single molecule analysis
Characterization and Fabrication of Nanostructure

Education:

1987. May – 1979. September; **Ph.D.in Physics, Department of Physics and Astronomy,**
University of North Carolina at Chapel Hill, Chapel Hill, NC 275

Professional Career:

2004. July – 2009. April; Principal Investigator, National Research Lab ,:
2003. March- 2004 Feb, **Dean of the Graduate School,** SunMoon University
2000. Feb - 1997. March ; Associate Professor of Physics, Sun Moon University
1992. Feb - 1990. Jan; Visiting Professor, Dept. of Physics and Astronomy, UNC-Ch, Chapel Hill
1989. Dec - 1987. May : Research Associate in Physics Department, North Carolina State University,

Visiting Professor:

- (1) Professor Luke Lee's group, Department of Bioengineering,
UC-Berkeley, Berkeley, May 2010- Aug. 2010, CA, USA
- (2) CNRS-LAAS, June 2000- Sept. 2000, Toulouse, France

International Invited Talks and Plenary Talks:

- (1) **Invited Talk**, 1st Surface Plasmonic Photonics, Sept, 2003, Granada, Spain
“ Fabrication of Subwavelength size Metallic Aperture using Various Techniques.”

- (2) The 18th International Conference on Surface Modification of Materials by Ion Beams, Sept 15-20, 2013, Pine Bay Resort, Kusadasi, Izmir, Turkey
“Fabrication of Plasmonic Nanopore on Pyramid,”
- (3) *The 19th International Conference on Surface Modification of Materials by Ion Beams,*
“Controllable Nanopore array fabrication by using electron beam irradiation,” Nov 22-27, 2016, Chiangmai, Thailand.
- (4) **Plenary Talk at Nano 2016**, Aug 24-26, Lviv, Ukraine,
“Towards the plasmonic optical biosensor for single molecule translocation and analysis,”
- (5) ***Plenary Talk to be presented***, “ Towards the Plasmonic Nanopore for single molecule analysis,” in International Conference on Mining, Materials, and Metallurgical Materials Engineering, March 17-19, 2017. Bangkok, Thailand,
- (6) ***Plenary Talk to be presented***, “ Towards the Plasmonic Au Nanopore for Next Generation Portable Device” in International Conference on Nano and Materials Engineering, April 1-3, 2017. Bali, Indonesia.
- (7) ***Invited Talk to be presented, “The Plasmonic Nanopore : The Next Generation Portable Nano-Bio Sensing Device of Single Molecule analysis,” Nanonetwork Workshop, Bergen, June 12-14, 2017, Norway.***

Honors:

1378th Member of Honor Society,

**“The Order of the Golden Fleece,” University of North Carolina at Chapel Hill,
the 2nd longest Honor society next to the “Skull and Bones, Yale University.”**