

## E D U C A T I O N

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- Ph.D of Engineering in EnvE** Aug. 2003 - Present  
School of Civil and Environmental Engineering Atlanta, GA  
Georgia Institute of Technology
- Master of Science** Mar. 2001 - Feb/2003  
Biological Resources and Materials Engineering,  
School of Agriculture and Life Sciences,  
Seoul National University Seoul, South Korea
- GPA : 3.78/4.3
- Bachelor of Science** Mar. 1994 - Feb. 2001  
Biological Resources and Materials Engineering,  
School of Agriculture and Life Sciences,  
Seoul National University Seoul, South Korea
- GPA : 3.18/4.3

## A W A R D & S C H O L A R S H I P

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- Honor Student Scholarship 1998 - 2000  
Seoul National University Seoul, South Korea

## P U B L I C A T I O N & C O N F E R E N C E S

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[1]

Tae-Hyun Bae, Sung-Soo Han, and Tae-Moon Tak\*, Membrane sequencing-batch reactor system for treatment of dairy industry wastewater, *Process Biochemistry*, Volume 39, Issue 2, October **2003**, Pages 221-231.

[2]

Sung-Soo Han, and etc., Influence of sludge retention time on membrane fouling and bioactivities in membrane bioreactor system, *Process Biochemistry*, Volume 40, Issue 7, June **2005**, Pages 2393-2400.

[J3]

Sung-Soo Han, John D. Fortner, and Joseph B. Hughes, Natural Attenuation of Dinitrotoluene: Determination of Biodegradation Limits (In preparation)

[C1]

Membrane sequencing batch reactor system for treatment of dairy industry wastewater. Tae-Hyun Bae, Sung-Soo Han, and Tae-Moon Tak, 223rd ACS, National Meeting, April 07-11, 2002, Orlando, Florida.

[C2]

Influence of sludge Retention Time on membrane fouling and biological treatment in membrane bioreactor. Sung-Soo Han, Tae-Hyun Bae, Hyung-Kyu Park, Gyoung-gug Jang and Tae-Moon Tak, North American Membrane Society (NAMS), June 26-30, 2004, Honolulu, Hawaii.

[C3]

Natural Attenuation of Dinitrotoluenes: Determination of Minimum Substrate Concentration. Sung-Soo Han and Joseph B. Hughes, Battelle Conference, May 22-25, 2006, Monterey, California.

## EXPERIENCE

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**Graduate Research Assistant**

Georgia Institute of Technology  
Advisor : Prof. Joseph B. Hughes

Main Research Topic : Biodegradation of Explosives as a Basis for Natural Attenuation

DEC. 2003 - Current  
Atlanta, Georgia

**Graduate Research Assistant**

Seoul National University  
Advisor : Prof. Tae-Moon Tak

Main Research Topic : Effect of sludge retention time on biological nutrient removal and membrane performance in membrane bioreactor process

Mar. 2001 - Feb. 2003  
Seoul, South Korea

**Undergraduate Research Assistant**

Seoul National University  
Advisor : Prof. Tae-Moon Tak

Mar. 2000 - Feb. 2001  
Seoul, South Korea

Main Research Topic : Preparation and characteristic of PES  
(Polyethersulfone) membrane

## Teaching

**Part-time Lecturer** Mar. 2003 - July.2003  
Sang-Joo National University Sang-Joo, South Korea  
School of Textile & Polymer Science  
Teaching Course : Surface Chemistry

## Projects

Development of membrane bioreactor process for Mar. 2001 – Feb. 2002  
biological treatment of dairy wastewater funded  
by HAITAI diary Co. Ltd (Seoul National University)

Plate submerged membrane bioreactor system Nov. 2002 – July. 2003  
for the treatment of livestock wastewater  
(Seoul National University, Pure & tech and Sae-  
Han Co. Ltd.)

Biodegradation of explosives as a basis for Jan. 2004 - Present  
Natural Attenuation funded by Dupont.  
(Georgia Institute of Technology)

## Military Service

Combat Support Feb. 1996 - Apr. 1998  
Army, South Korea

## S K I L L

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### Computer Software

- MS Office (Word, Excel, PowerPoint), SigmaPlot, EndNote

### Analytical Instruments

- HPLC, UV-Vis Spectrophotometer, Ion Chromatography, Respirometer

### Languages

- Korean, English
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## I N T E R E S T

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- Remediation of Soil and Ground Water
- Application of microorganisms to *in situ* biodegradation
- Microbial Fuel Cell

## R E F E R E N C E

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Available upon Request