

CURRICULUM VITAE

WON HYUK SUH (WON H. SUH)

Current address: ASSISTANT PROFESSOR
BIOENGINEERING DEPARTMENT
COLLEGE OF ENGINEERING
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Last update: July 2013

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SUMMARY OF QUALIFICATIONS

2012-current Assistant professor, Bioengineering Department, TEMPLE UNIVERSITY, PHILADELPHIA, PA, USA
2009-2012 Postdoc research, Department of Bioengineering, UNIVERSITY OF CALIFORNIA, BERKELEY, CA, USA
2007-2010 Postdoc research in Bioengineering, UNIVERSITY OF CALIFORNIA, SANTA BARBARA, CA, USA
2002-2006 Ph.D. in Chemistry, UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN, IL, USA
2000-2002 M.S. in Chemistry*, SEOUL NATIONAL UNIVERSITY, SOUTH KOREA
1994-1998 B.S. in Chemistry, SEOUL NATIONAL UNIVERSITY, SOUTH KOREA
*1998-2000 Mandatory military service, translator/interpreter in US/Korean Armies, Operations, Combat Support Coordination Team 3, 8th US Army

- Postdoc res: Nanostructured and bioactive biomaterials for stem cell tissue engineering
Advisors: Profs. Matthew Tirrell (UC Berkeley), Galen D. Stucky (UC Santa Barbara)
- Ph.D. thesis: "Microspheres and Nanoparticles from Ultrasound," 2006, Univ. of Illinois at Urbana-Champaign
Advisor: Prof. Kenneth S. Suslick in Chemistry and Materials Science and Engineering Departments
- M.S. thesis: "Pauson-Khand Reaction in Aqueous Media", 2002, Seoul National University
Advisor: Prof. Young Keun Chung in Chemistry

PROFESSIONAL EXPERIENCE

2012.07-present TEMPLE UNIVERSITY PHILADELPHIA, PA (US)
ASSISTANT PROFESSOR (TENURE-TRACK)

- Development of molecular engineering technologies involving peptide-based biomaterials and nanostructures for stem cell engineering and manipulation. Tenure-track appointment within the Bioengineering Department, College of Engineering.
- Teaching: Instructed 'Biomaterials for Engineers' (ENGR 4741, ENGR 5741) for both undergraduate and graduate students.
- Co-organizer for D1 Biology Technical Symposium, US-Korea Conference (UKC) 2013, 7-10 August, 2013, East Rutherford, NJ.
- Guest editor for the journal 'CNS & Neurological Disorders - Drug Targets' (Impact factor: 3.769).

2009.07-2012.06 UNIVERSITY OF CALIFORNIA, BERKELEY BERKELEY, CA (US)
POSTDOCTORAL FELLOW 2009.07-2011.01
ASSISTANT PROJECT SCIENTIST 2011.02-2012.06

- Development of 3D modular and bioactive synthetic extracellular matrices made up of peptide amphiphiles for *in vitro* and *in vivo* bioengineering applications as part of the Wake-Pittsburgh Forest Consortium (WFPC) within Armed Forces Institute of Regenerative Medicine (AFIRM). WFPC Fellow Council Member (2009-11). Published reports are available at www.afirm.mil.

2008.02-2010.01 UNIVERSITY OF CALIFORNIA, SANTA BARBARA SANTA BARBARA, CA (US)
OTIS WILLIAMS POSTDOCTORAL FELLOW in BIOENGINEERING

- Postdoc Fellowship theme: "Porous and Nanostructured Hierarchical Materials for Embryonic and Neuronal Stem Cell Engineering," Advisors: Prof. Galen D. Stucky, Kenneth S. Kosik (Neuroscience), and Matthew Tirrell, UC Santa Barbara.
- Sponsored by the College of Engineering, Division of Mathematical, Life, and Physical Sciences, annual award: \$69,500.
- Conducted human embryonic stem cell (hESC) work. Successfully completed NIH sponsored Human Embryonic Stem Cell (hESC) Course at CHOC/Burnham (now Scripps) between 4-13 March 2008 (Directors Dr. Philip H. Schwartz and Prof. Jeanne F. Loring).
- Nanotoxicology research in collaboration with Prof. Patricia A. Holden (Environmental Engineering).

2007.01-2008.01	UNIVERSITY OF CALIFORNIA, SANTA BARBARA POSTDOCTORAL RESEARCH ASSOCIATE	SANTA BARBARA, CA (US)
	<ul style="list-style-type: none"> • Postdoctoral researcher with Prof. Galen D. Stucky and research mentor to students (please see list on last page) • Mesoporous and nanostructured materials synthesis and applications in catalysis, stem cell biology control and nanotoxicology. 	
2002.06-2006.12	UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN PRE-DOCTORAL FELLOW, TEACHING, AND RESEARCH ASSISTANT	URBANA, IL (US)
	<ul style="list-style-type: none"> • Organic Chemistry lab Teaching Assistant (TA), Chem234, Fall 2002, Spring and Fall 2003 (Teaching Award received). • Solid State Structure Analysis (X-ray crystallography) TA, Chem392, Spring 2004. • Physical Methods in Materials Chemistry TA, Chem590, Spring 2005. • Research Assistant with Prof. Suslick, Summer 2002, Fall 2003- Fall 2006. Theme: Ultrasound techniques for materials research • Inorganic/Materials Chemistry Student Selected Speaker Series committee member (2004-2005). • Careers in Academia (CIA) Seminar Series committee member (2005). • Multiple international scientific conferences and departmental seminars. 	
2000.03 - 2002.05	SEOUL NATIONAL UNIVERSITY TEACHING AND RESEARCH ASSISTANT	SEOUL, KOREA (ROK)
	<ul style="list-style-type: none"> • General Chemistry class TA, Fall 2000 / General Chemistry lab TA, Spring and Fall 2001. • Research and administrative assistant for Prof. Young Keun Chung (2000.03-2002.05). • Completed NMR and X-ray training for organic and organometallic synthesis research. 	
1998.01 - 2000.03	US ARMY AND ROK ARMY ENGLISH-KOREAN TRANSLATOR, KATUSA (KOREAN AUGMENTATION TO THE US ARMY) PERSONNEL	SEOUL, KOREA (ROK)
	<ul style="list-style-type: none"> • Worked as a translator and interpreter for 8th United States Army and TROKA (3rd Republic of Korea Army). • Awarded two AAMs (Army Achievement Medal) and one ARCOM (Army Commendation Medal) for exemplary work as a translator. • Participated in multiple international military exercises in command level units. • Ranked within top three soldiers at the KATUSA Training Academy for overall performance (English, communication skills and physical strength & endurance). 	

AWARDS AND FELLOWSHIPS

9. TRAVEL AWARD FROM PITTSBURGH TISSUE ENGINEERING INITIATIVE (PTEI), April 2011 (Translational Regenerative Med. Mtg., Wash. D.C.)
8. OTIS WILLIAMS POSTDOCTORAL FELLOWSHIP IN BIOENGINEERING, University of California, Santa Barbara, 02/2008-01/2010, \$69.5k/yr.
7. TRAVEL AWARD FROM THE GRADUATE COLLEGE, University of Illinois at Urbana-Champaign, April 2006 (Spring MRS 2006).
6. HARRY G. DRICKAMER RESEARCH FELLOWSHIP, School of Chemical Sciences, University of Illinois at Urbana-Champaign, Aug. 08, 2005.
5. ACS DIC (Division of Inorganic Chemistry) STUDENT TRAVEL AWARDS, Spring 2004 ACS National Meeting in Anaheim.
4. TEACHING AWARD IN THE SCHOOL OF CHEMICAL SCIENCES, University of Illinois at Urbana-Champaign, August 20, 2003.
3. Listed on "AN INCOMPLETE LIST OF TEACHERS RANKED AS EXCELLENT BY THEIR STUDENTS" for teaching Organic Chemistry Laboratory, Chem234, Fall 2002, Spring 2003, and Fall 2003 (three times).
2. Army Achievement Medal (AAM, two) and Army Commendation Medal (ARCOM, one), 1998-2000.
1. Top three soldier award in the KATUSA Training Academy, March 1998.

16. Suh, W. H.; Ananthanarayanan, B.; Tirrell, M., "Molecular Engineering of Peptides for Cellular Adhesion Control," *Polymer Adhesion, Friction and Lubrication* **2013**, 283-317.
15. Suh, W. H.*; Tirrell, M*, "Surface engineering using peptide amphiphiles," *Comprehensive Biomat.* **2011**, 4, 219-245.
14. Suh, W. H.*; Kang, J.; Suh, Y. -H.*; Tirrell, M.; Suslick, K. S.; Stucky, G. D.*, "Porous Carbon Produced in Air: Physico-chemical Properties and Stem Cell Engineering," *Advanced Materials* **2011**, 23, 2332-2338.
13. Chang, K. A.; Kim, J. W.; Kim, J. A.; Lee, S.; Kim, S.; Suh, W. H.; Kim, H. S.; Kwon, S.; Kim, S. J.*; Suh, Y. H.*, "Biphasic electrical currents stimulation promotes both proliferation and differentiation of fetal neural stem cells," *PLoS ONE* **2011**, 6, e18738.
12. Horst, A. M.; Neal, A. C.; Mielke, R. E.; Sislian, P. R.; Suh, W. H.; Madler, L.; Stucky, G. D.; Holden, P. A.*, "Dispersion of TiO₂ Nanoparticles Agglomerates by *Pseudomonas aeruginosa*," *Applied and Environ. Microbiology* **2010**, 76, 7292-7298.
11. Suh, W. H.; Suh, Y. -H.*; Stucky, G. D.*, "Multifunctional nanosystems at the interface of physical and life sciences," *Nano Today* **2009**, 4, 27-36.
10. Suh, W. H.; Suslick, K. S.; Stucky, G. D.; Suh, Y. -H.*, "Nanotechnology, Nanotoxicology, and Neuroscience," *Progress in Neurobiology* **2009**, 87, 133-170. (PMID: 18926873)
9. Bang, J. H.; Suh, W. H., Suslick, K. S.*, "Quantum Dots from Chemical Aerosol Flow Synthesis: Preparation, Characterization, and Cellular Imaging," *Chemistry of Materials* **2008**, 20, 4033-4038.
8. Suh, W. H.; Jang, A. R.; Lee, C. S.; Suh, Y. -H.; Suslick, K. S.*, "Endocytosis of Magnetic Microspheres into Cells," *Microscopy & Microanalysis* **2006**, S-02, 620-621.
7. Suh, W. H.; Jang, A. R.; Suh, Y. -H.*; Suslick, K. S.*, "Porous, Hollow, and Ball-in-ball Metal Oxide Microspheres: Preparation, Endocytosis, and Cytotoxicity," *Advanced Materials* **2006**, 18, 1832-1837.
6. Suh, W. H.; Suslick, K. S.; Suh, Y. -H.*, "Therapeutic Agents for Alzheimer's Disease," *Current Medicinal Chemistry - Central Nervous System Agents* **2005**, 5, 259-270.
5. Suh, W. H.; Suslick, K. S.*, "Magnetic and Porous Nanospheres from Ultrasonic Spray Pyrolysis," *Journal of the American Chemical Society* **2005**, 127, 12007-12010.
4. Suh, W. H.; Choi, M. R.; Lee, S. I.; Chung, Y. K.*, "Rh(I)-Catalyzed Asymmetric Intramolecular Pauson-Khand Reaction in Aqueous Media," *Synthesis* **2003**, 2169-2172.
3. Lee, B. Y.*; Kim, Y. H.; Won, Y. C.; Han, J. W.; Suh, W. H.; Lee, I. S.; Chung, Y. K.*; Song, K. H., "Synthesis of [2,2'-Methylenebis(1,3-dimethylcyclopentadienyl)]zirconium Dichloride and its Reactivity in Ethylene-Norbornene Copolymerization," *Organometallics* **2002**, 21, 1500 - 1503.
2. Rhyoo, H. Y.; Park, H. J.; Suh, W. H.; Chung, Y. K.*, "Use of Surfactants in Water-soluble Ruthenium(II) Complex-catalyzed Asymmetric Hydrogen-transfer Reduction of Aromatic Ketones," *Tetrahedron Letters* **2002**, 43, 269 - 272.
1. Suh, Y. H.*; Seo, J. H.; Xu, Y.; Heo, C.; Kim, N.; Choi, J. H.; Choi, S. H.; Rah, J. C.; Chang, K. A.; Suh, W. H., "Toxicity of APP Fragments," *Mapping the Progress of Alzheimer's and Parkinson's Disease - Advances in Behavioral Biology*, pp 19-26, Plenum Pub Corp, 2002/03.

PRESENTATIONS

TOTAL of 31 ORAL presentations.

TOTAL of 35 POSTER presentations.

ORAL PRESENTATIONS

31. 2012 US-Korea Conference (UKC) on Science, Technology, and Entrepreneurship 2012, August, 2012, Los Angeles, CA (invited)
"Surface engineered nanomaterials for stem cell engineering," Won Hyuk Suh, Matthew Tirrell.
30. Health Sciences Center - Medical Education and Research Building, Temple University, April 10, 2012, Philadelphia, PA (invited)
"Lipidated molecules and nanostructures for biomedical applications," Won Hyuk Suh.
29. Nanoscience Technology Center, University of Central Florida, 20 February, 2012, Orlando, FL (invited)
"Interfacing synthetic materials to human stem cells," Won Hyuk Suh.
28. School of Biomedical Engineering and Sciences, Virginia Polytech Institute and State Univ., 8 Feb., 2012, Blacksburg, VA (invited)
"Interfacing synthetic materials to human stem cells," Won Hyuk Suh.
27. Department of Chemistry, McMaster University, 30 January, 2012, Hamilton, Canada (invited)
"Interfacing synthetic materials to human stem cells," Won Hyuk Suh.
26. Department of Chemistry, University of Connecticut, 24 January, 2012, Storrs, CT (invited)
"Interfacing synthetic materials to human stem cells," Won Hyuk Suh.
25. Singapore University of Technology and Design (SUTD), 21 October, 2011, Singapore (invited)
"Materials interfaced to stem cells," Won Hyuk Suh.
24. Department of Chemical and Biological Engineering, University of Alabama, 12 July, 2011, Tuscaloosa, AL (invited)
"Engineered biomaterials interfaced to stem cells," Won Hyuk Suh.
23. Department of Chemical Engineering and Bioengineering, Washington State University, 26 May, 2011, WA (invited)
"Synthetic biomaterials interfaced to stem cells," Won Hyuk Suh.
22. Department of Materials Science and Engineering, University of Toronto, 26 April, 2011, Toronto, Canada (invited)
"Synthetic biomaterials interfaced to stem cells," Won Hyuk Suh.
21. 240th American Chemical Society (ACS) National Meeting, 25 August, 2010, Boston, MA
"Synthetic extracellular matrices and nanostructures for biomedical applications," Won Hyuk Suh, Galen D. Stucky, Matthew Tirrell.
20. Department of Polymer Science and Engineering, Chungnam University, 13 August, 2010, Daejeon, S. Korea (invited)
"Protein-analogous synthetic nanostructures for biomedical applications," Won Hyuk Suh, Matthew Tirrell.
19. School of Interdisciplinary Bioscience and Bioengineering, 2 August, 2010, Pohang, S. Korea (invited)
"Bioactive and protein-like synthetic nanostructures from peptide amphiphiles," Won Hyuk Suh, Matthew Tirrell.
18. 2nd Joint Workshop, Dept. of Bioengineering, UC Berkeley & Bio-MAX Institute, Seoul National U., July 28, 2010, Seoul, S. Korea (invited), "Protein Analogous Micelles: Versatile, Modular Nanoparticles," Won Hyuk Suh, Matthew Tirrell.
17. 2010 MRS (Materials Research Society) Spring Meeting, 5-9 April, San Francisco, CA, "Bioactive Three-dimensional Synthetic Matrices: Peptide Amphiphiles, Nanostructured Gels, and Tissue Engineering," Won Hyuk Suh, K. Megley, T. Shimada, M. Tirrell.
16. 239th Spring American Chemical Society (ACS) National Meeting, 25 March, San Francisco, CA
"Injectable nanostructured synthetic matrices for stem cell tissue engineering," Won Hyuk Suh, K. Megley, T. Shimada, M. Tirrell.
15. Department of Chemistry, Korea Advanced Institute of Science and Technology, 10 November, 2009, Daejeon, S. Korea (invited)
"Synthetic Extracellular Matrices and Nanostructures for Biomedical Applications," Won Hyuk Suh, G. D. Stucky, Matthew Tirrell.
14. BK21 School of Chemical Materials Science Seminar Series Lecture, Dept. of Chemistry, SungKyunKwan Univ., 6 Nov., 2009, Suwon, S. Korea (invited), "Injectable Synthetic Matrices for Tissue Engineering," Won Hyuk Suh, K. Megley, T. Shimada, M. Tirrell.
13. Graduate School Seminar Series Lecture, Department of Molecular Science and Technology, Ajou Univ., 5 November, 2009, Suwon, S. Korea (invited), "Injectable Synthetic Matrices for Tissue Engineering," Won Hyuk Suh, K. Megley, T. Shimada, M. Tirrell.
12. KAIST Institute for NanoCentury Seminar Series Lecture, Dept. of Mater. Sci. Eng., KAIST, 4 November, 2009, Daejeon, S. Korea (invited), "Injectable Synthetic Matrices for Tissue Engineering," Won Hyuk Suh, Katie Megley, Tomoko Shimada, Matthew Tirrell.
11. WCU Invited Lecture, Department of Chemical and Biomolecular Engineering, Seoul National University, 28 October, 2009, Seoul, S. Korea (invited), "Injectable Synthetic Matrices for Tissue Engineering," Won Hyuk Suh, K. Megley, T. Shimada, M. Tirrell.
10. Graduate School Special Seminar Series Lecture, Department of Chemistry, Sogang University, 27 October, 2009, Seoul, S. Korea

ORAL PRESENTATIONS *(continued)*

- (invited), "Injectable Synthetic Matrices for Tissue Engineering," Won Hyuk Suh, Katie Megley, Tomoko Shimada, Matthew Tirrell.
9. Advanced Topics in Regenerative Medicine (Biol 512), California State University, Channel Islands, 9 July, 2009, Camarillo, CA (invited), "Nanostructured Biomaterials: Nanotoxicology and Opportunities in Stem Cell Engineering," Won Hyuk Suh.
8. 237th Spring American Chemical Society (ACS) National Meeting, 26 March, 2009, Salt Lake City, UT (invited), "Nanostructured metal oxides: Syntheses, properties, and nanotoxicology," Won Hyuk Suh, AM Horst, JH Priester, GD Stucky, and PA Holden.
7. Stem Cell Seminar, CIRM & Neuroscience Research Institute, University of California, Santa Barbara, 4 March, 2009 (invited), "Peptide Amphiphiles for Stem Cell Engineering: Synthesis, Analysis, and Cell Biology Experiments," Won Hyuk Suh and M. Tirrell.
6. 2006 Fall American Chemical Society (ACS) National Meeting, San Francisco, CA
"Microspheres and Nanoparticles From Ultrasound," Won Hyuk Suh and Kenneth S. Suslick.
5. Prof. Galan D. Stucky's Group Meeting Seminar, University of California, Santa Barbara, 24 July, 2006, Santa Barbara, CA (invited)
"Microspheres and Nanoparticles From Ultrasound," Won Hyuk Suh and Kenneth S. Suslick.
4. FS-MRL Nano-Oxide Photocatalysis for Solar Energy Conversion Cluster Meeting, University of Illinois at U-C, 6 June, 2006, Urbana, IL, "Nanomaterials From Ultrasonic Spray Pyrolysis," Won Hyuk Suh and Kenneth S. Suslick.
3. LG Chem Tech Fair USA 2005, 4-6 March, Anaheim, CA (invited)
"Magnetic and Porous Nanospheres From Ultrasonic Spray Pyrolysis," Won Hyuk Suh and Kenneth S. Suslick.
2. BK21 (Brain Korea 21) talk, Department of Pharmacology, College of Medicine, Seoul National University, July, 2004, Seoul, Korea (invited), "Ultrasonic Spray Method of Preparing Encapsulated Nanomaterials," Won Hyuk Suh and Kenneth S. Suslick.
1. UIA (Ultrasound Industrial Association) 33rd Annual Symposium, 23 September, 2003, Indianapolis, IN (invited)
"Ultrasonic Spray Method of Preparing Encapsulated nanomaterials," Won Hyuk Suh, Dong-Kyu Lee, Yuri Didenko, Ken S. Suslick.

POSTER PRESENTATIONS

** Presenter*

35. Biomedical Engineering Society (BMES) Annual Meeting, 24-27 October, 2012, Atlanta, GA, "Surface engineering nanomaterials for stem cell engineering," Won Hyuk Suh, Matthew Tirrell.
34. Society for Neuroscience (SfN) Annual Meeting, 13-17 October, 2012, New Orleans, LA, "Molecular and nanostructure engineering for stem cell engineering," Won Hyuk Suh, Matthew Tirrell.
33. 2012 International Conference on Bioengineering and Nanotechnology (ICBN), 25-26 June, 2012, Berkeley, CA, "Nanostructures for stem cell engineering," Won Hyuk Suh, Matthew Tirrell.
32. 2011 Regenerative Medicine Forum, 6-8 April, 2011, Washington D.C., "Synthetic nanostructures incorporating peptides for regenerative medicine," Won Hyuk Suh, K. Megley, G. Lei, M. Tirrell.
31. 2011 AFIRM (Armed Forces Institute of Regenerative Medicine) Conference: "All Hands" Meeting, 17-20 January, 2011, Clearwater, FL, "Modular, Switchable, Synthetic Extracellular Matrices for Regenerative Medicine," Won Hyuk Suh*, K. Megley, M. Tirrell.
- 29-30. 240th American Chemical Society Meeting, AEI and ORGN sessions, 22-26 August, 2010, Boston, MA, US, "Bioactive synthetic nanostructured extracellular matrices for biomedical applications," Won Hyuk Suh*, Galen D. Stucky, Matthew Tirrell.
28. 2010 International Stem Cell Research Society (ISSCR) Annual Meeting, 16-19 April, 2010, San Francisco, CA, "Injectable and Nanostructured Synthetic Extracellular Matrices for Regenerative Medicine," Won Hyuk Suh*, K. Megley, D. Krogstad, M. Tirrell.
27. 2010 AFIRM (Armed Forces Institute of Regenerative Medicine) Conference: "All Hands" Meeting, 11-15 January, 2010, St. Pete Beach, FL, "Injectable Synthetic Extracellular Matrices for Regenerative Medicine," Won Hyuk Suh*, K. Megley*, Matthew Tirrell.
26. Molecular Foundry, Advanced Light Source Users Meeting 2009, 15-16 October, 2009, Berkeley, CA, "Injectable Synthetic Matrices for Tissue Engineering," Won Hyuk Suh*, Katie Megley, Tomoko Shimada, Matthew Tirrell.
25. 2009 AFIRM Conference: "All Hands" Meeting, 14-16 January 2009, St. Pete Beach, FL, "Synthetic Peptide-based Extracellular Matrices for Neural Stem Cell Engineering," B. Ananthanarayanan, Won Hyuk Suh*, and M. Tirrell.
24. CIMTEC 2008, The 3rd International Conference on "Smart Materials, Structures, and Systems," 8-13 June 2008, Italy, "Synthesis and Characterization of Porous Carbon Nitride Spheres," Se Yun Kim*, Won Hyuk Suh, J. H. Choi, Jeungku Kang, Galen D. Stucky.

23. The 28th Annual Meeting in North America of the Society of Environmental Toxicology and Chemistry (SETAC) 2007, Nov. 11-15, 2007, Milwaukee, WI, "Influential Relationship of Industrial Metal Oxide Nanoparticles and *Pseudomonas aeruginosa*," Andrea C. Neal*, John H. Priester, Patricia A. Holden, Won Hyuk Suh, Galen D. Stucky.
22. Western Regional Meeting, American Chemical Society, Oct. 9-13, 2007, San Diego, CA, "Metal Oxide Microspheres: Preparation, Endocytosis and Cytotoxicity," Won Hyuk Suh*, Ah Ram Jang, Kenneth S. Suslick, Yoo-Hun Suh, Galen D. Stucky.
21. Bio-physicochemical Interactions of Engineered Nanomaterials Workshop, September 9 -11, 2007, UCLA/CNSI building, CA, "Metal Oxide Microspheres: Preparation, Endocytosis and Cytotoxicity," Won Hyuk Suh*, A.R. Jang, K.S. Suslick, Y.H. Suh, G. D. Stucky.
20. *Pseudomonas* 2007, American Society for Microbiology, 26-30 Aug. 2007, Seattle, WA, "Influence of *Pseudomonas aeruginosa* on Industrial Metal Oxide Nanoparticle Aggregate Formation," Andrea C. Neal*, Won Hyuk Suh, Randall E. Mielke, John H. Priester, Galen D. Stucky, Patricia A. Holden.
19. The 2nd International Congress of Nanobiotechnology & Nanomedicine (NanoBio2007), 18-21 Jun. 2007, San Francisco, CA, "Biological Effects of Industrial Metal Oxide Nanoparticles on *Pseudomonas aeruginosa*," Andrea C. Neal*, Won Hyuk Suh, Randall E. Mielke, John H. Priester, Galen D. Stucky, Patricia A. Holden.
18. McGowan Institute for Regenerative Medicine Retreat, "Porous and Nanostructured Materials Controlling Biological Processes," Won Hyuk Suh* and Galen D. Stucky, March 4-6, 2007, Pittsburgh.
17. Symposium on Recent Advances in Nanoscale Materials Research (Celebrating Galen Stucky's 70th Birthday Anniversary), University of California, Santa Barbara, Dec. 8th, 2006, "Microspheres and Nanoparticles From Ultrasound," W. H. Suh*, K. S. Suslick.
16. 36th Society for Neuroscience (SfN) Meeting, Oct. 14-18, 2006, Atlanta, GA "Cytotoxicity and Drug Delivery Application of Microspheres from Ultrasonic Spray Pyrolysis."
- 12-15. 232nd American Chemical Society Meeting, 2006, San Francisco, CA, "Porous, Hollow, Ball-in-ball Metal Oxide Microspheres: Preparation, Endocytosis, and Cytotoxicity" and three others.
11. CNST Nanotechnology Workshop, May 4, 2006, Beckman Institute, Univ. of Illinois at Urbana-Champaign, Urbana, IL, "Porous, Hollow, and Ball-in-ball Type Metal Oxide Microspheres: Preparation, Endocytosis, and Cytotoxicity."
10. 2006 Materials Research Society (MRS) Spring Meeting, April, San Francisco, CA, US, "Porous, Hollow, Ball-in-ball Metal Oxide Microspheres: Preparation, Endocytosis, and Cytotoxicity."
9. 3D Multifunctional Ceramic Composites Workshop, 2006 Materials Research Society (MRS) meeting, Urbana, IL, US, "Magnetic and Porous Nanospheres From Ultrasonic Spray Pyrolysis."
8. 35th Society for Neuroscience (SfN) Meeting, 2005, Washington, DC, US, "DHED Neuroprotects Against Oxidative Damage."
7. 228th American Chemical Society Meeting, 2004, Philadelphia, PA, US, "Synthesis of Hollow, Porous and Ball-in-ball Nanospheres using Ultrasonic Spray Method."
6. ACS PRF Summer School on Nanoparticle Materials, Eastern Michigan University, June 06-18, 2004, Ypsilanti, MI, US, "Preparation of Porous Nanospheres Using Ultrasonic Spray Pyrolysis."
5. 227th American Chem. Soc. Meeting, 2004, Anaheim, CA, US, "Preparation of Porous Nanospheres by Ultrasonic Spray Pyrolysis."
4. 88th Korean Chem. Soc. Meeting, 2001, Busan, Korea, "Heterogeneous Asymmetric Hydrogen Transfer Reaction of Cyclic Imines."
3. 88th Korean Chem. Soc. Meeting, 2001, Busan, Korea, "Pauson-Khand Reaction in Water" (*Synthesis* **2003**, 2169-2172).
2. OMCOS-11, 2001, Taipei, Taiwan, "The First Ru(II)-Catalyzed Asymmetric Hydrogen Transfer Reduction of Aromatic Ketones in Aqueous Media."
1. 87th Korean Chemical Society Meeting, 2001, Seoul, Korea, "Experimental and Theoretical Investigation of New Chiral and Achiral Organometallic Materials for Second-order Non-linear Optics."

MENTORED PERSONNEL LIST

27 total, 20 shown, alphabetical order

Temple University, 2012-present

F. G. Tahrir (2013-present, Temple)

Geun-woo Jin, PhD (2012-present, Temple)

Jin Won Kim, PhD (2013-present, Temple)

Weili Ma (2013-present, Temple)

Eugene Parker (2013-present, Temple)

Kevin Yoo (2013-present, Temple)

Pre-Temple University, 2000-2012

Jason Bedford (2008, SBCC)

Hee Young Cho (2010-11, UC Berkeley)

Mira Choi (2001-2002, SNU)

Tobey Colston (2010-2011, Merritt)

Stephen Crawford (2007-09, SBCC)

Matthew Fong (2010-11, UC Berkeley)

Ah Ram Jang (2004-08, SNU)

Se Yun Kim (2007-09, KAIST)

Catherine S. Lee (2006, UIUC)

Gary Lei (2010-2011, CSUCI via CIRM)

Silvia Lucatero (2007-08, Allen Hancock)

Lisa Maginot (2008, West Point)

Erwin Park (2006-07, UIUC)

Kate Priebe (2008, West Point)

PROFESSIONAL MEMBERSHIPS

**not current*

1. American Chemical Society, (ACS) since 1997 (Divisions: Inorganic Chem. / Organic Chem. / Polymeric Mater. Sci. Eng. / Toxicology).

2. Materials Research Society (MRS), since 2005.

3*. Microscopy Society of America (MSA), 2006.

4. Society for Neuroscience (SfN), since 2006.

5. Biomedical Engineering Society (BMES), 2007-08, 2010-present.

6*. ISSCR (International Society for Stem Cell Research), since 2008.

7*. American Society for Matrix Biology (ASMB), 2008

REFERENCES

Prof. Kenneth S. Suslick, Ph.D. thesis advisor: University of Illinois at Urbana-Champaign, Chemistry, ksuslick@illinois.edu

Prof. Galen D. Stucky, Postdoc advisor: University of California, Santa Barbara, Chemistry/Materials, stucky@chem.ucsb.edu

Prof. Matthew Tirrell, Postdoc advisor: Institute for Molecular Engineering, University of Chicago, mtirrell@uchicago.edu

Prof. Young Keun Chung, M.S. thesis advisor: Seoul National University, Chemistry, ykchung@snu.ac.kr

Prof. Peter I. Lelkes, Department Chair: Temple University, Bioengineering Department, [pilelkes@temple.edu](mailto:pilkelkes@temple.edu)