

Professor and Director  
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**Education:**

M.S. 1994                    Technische Universität Braunschweig: Biotechnology  
Ph.D. 1997                    Universität Stuttgart: Technical Biochemistry

**Professional Experience**

7/1997 - 6/1999            Postdoctoral Fellow  
Cornell University: Food Science & Technology  
7/1999 – 10/2004           Assistant Professor  
Cornell University: Biological and Environmental Engineering  
11/2004 – 10/2008           Associate Professor  
Cornell University: Biological and Environmental Engineering  
11/2008 – 07/2015           Professor  
Cornell University: Biological and Environmental Engineering  
01/2013 – present           Professor and Director  
Institute of Analytical Chemistry, Chemo- and Biosensors,  
University of Regensburg,  
08/2015 – present           Adjunct Professor  
Cornell University, Biological and Environmental Engineering,

**Academic Positions**

07/2008 – 04/2013        Director of Graduate studies, Biological and Environmental Engineering  
01/2013 – present        Director of the Institute of Analytical Chemistry, Chemo- and Biosensors

**Scientific Leadership Positions**

2005 – present            Intern. Advisory Board of Analytical & Bioanalytical Chemistry (Springer)  
2007 - present            Extended Executive Committee of the Intern. Association of Environmental  
Analytical Chemistry (IAEAC)  
2008                        Vice-Chair of the Gordon Research Conference on Bioanalytical Sensors  
2010                        Chair of the Gordon Research Conference on Bioanalytical Sensors  
2010 2015                Board of Directors of the Society for ElectroAnalytical Chemistry (SEAC)  
2011                        Editorial Advisory Board of the Encyclopedia of Agriculture, Food and  
Biological Engineering (Taylor and Francis)  
2017 – present            Member of the leadership team of the working group “bio- and chemosensors”  
of the German Chemical Society (GDCh)

**Prestigious Honors and Awards:**

- 1993 Reinhard Böhm Award (Braunschweig University, Germany) for independent research
- 1994 Daimler-Benz Award for research at Cambridge University, UK
- 1997 Deutscher Akademischer Austausch Dienst (DAAD) Fellowship for postdoctoral research at Cornell University, USA
- 2001 Cornell College of Agricultural & Life Sciences Inaugural Award for  
**Excellence in Mentoring Undergraduate Students in Independent Research**
- 2002 Cornell College of Engineering “John Swanson ’61 ME in honor of his mother, Dorothy G. Swanson, **Excellence in Teaching Award**”
- 2006 Cornell College of Engineering “John Swanson ’61 ME in honor of his mother, Dorothy G. Swanson, **Excellence in Teaching Award**”
- 2006 Elected honorary member of the Golden Key International Honorary Society
- 2007 Outstanding Teacher 2007 Award from Tau Beta Pi, the Engineering Honor Society
- 2007 New York Academy of Sciences Blavatnik Awards for Young Scientists (finalist)
- 2007 German Science Foundation Mercator Guestprofessorship
- 2007 Humboldt Foundation Fellow
- 2010 Faculty Fellow, Undergraduate Information Competency
- 2010 2010 Grocery Manufacturers Association (GMA) Food Safety Award
- 2011 Excellence in Teaching Award (Sonny Yau’72, College of Engineering)
- 2012 SUNY Chancellor Award for Excellence in Teaching
- 2012 Nominated to the Board of the Center for Teaching Excellence at Cornell University
- 2012 Inducted as honorary member to Tau Beta Pi
- 2015 Elected Vice-Chair, Gordon Research Conference “Nanoscale Science and Engineering for Agriculture and Food Systems

Invited Speaker

- 1997 PITTCON’97, Atlanta, GA, March
- 1998 Immunochemistry Summit VII & 3rd Workshop on Biosensors and Biological Techniques in Environmental Analysis, Las Vegas, NV, November
- 1999 NE Regional AOAC International Meeting, Saratoga Springs, NY, April,  
"Minimizing the Risk from *Cryptosporidium* and other Waterborne Particles" Paris, France, April (invited poster presentation)
- 2000 Cornell Institute of Food Science, Associates Meeting, Ithaca, January  
PITTCON 2000, New Orleans, LA, March  
Biotechnology 2000 Workshop, Airforce Research Laboratory, Dayton, OH, June  
VIII European Multicolloquium of Parasitology, Symposium 6 “The Status of Food-borne Parasites at the Dawn of the New Millennium”, Poznan, Poland, September
- 2001 PITTCON 2001, New Orleans, LA, March  
“The Future of Cornell Engineering” Symposium to honor J. Hopcroft, Ithaca, April  
BioStar: “Bio” and “Engineering” on Cornell Campus, Ithaca, NY, December
- 2002 PITTCON 2002, New Orleans, March  
Silicon Valley, CU alumni meeting, Faculty speaker and panelist, San Jose, CA, April  
Cornell Lynch-Weiss visit, invited speaker, Ithaca, NY, September  
The 18<sup>th</sup> Annual International Conference on Contaminated Soils, Sediments, and Water, University of Massachusetts, Amherst, October 21 – 24  
National Planning Workshop – Nanoscale Science and Engineering for Agriculture and Food Systems, Washington, D.C., November 18 – 19
- 2003 Nanotechnology symposium at IFT Summit Meeting, Orlando, FL, January 12 – 14

- PITTCON 2003, Orlando, FL, March  
Cornell University Presidential Alumni Event, New York, NY, March 19  
BARD (U.S.- Israel Binational Agricultural Research and Development Fund (BARD))  
conference Science and Technology Based Countermeasures to Foodborne Terrorism,  
Shepherdstown, WV, June 29 – July 2  
ICATHS (International Conference on Advanced Technologies for Homeland  
Securities) University of Connecticut, Storrs, CT, September 25 – 26
- 2004 CALS Alumni Forum, Faculty presenter, April 3<sup>rd</sup>  
Annual meeting of the Institute of Food Technologists (IFT), Las Vegas, NV  
“Nanobiosensors for Food Safety and Food Security”  
Knowledge Foundation “Detection Technologies”, Dec. 2 – 3<sup>rd</sup>, 2004, Arlington, VA
- 2005 Presidential NLSI Alumni Forum, Chicago, Faculty Presenter, June 1<sup>st</sup>
- 2006 Gordon Research Conference “Bioanalytical Sensors”, Feb. 26<sup>th</sup> – March 4<sup>th</sup>, Ventura, CA  
PITTCON 2006, March 12 – 17<sup>th</sup>, Orlando, FL
- 2007 PITTCON 2007, February 25<sup>th</sup> – March 1<sup>st</sup>, Chicago, IL  
GDCh colloquium, University of Dortmund, Oct. 29<sup>th</sup>, Dortmund, Germany  
Qiagen, Nano(bio)technology seminar series, Dec. 3<sup>rd</sup>, Hilden, Germany
- 2008 IMM (Institute for Microtechnology, Mainz), Mainz, Germany, Jan. 21<sup>st</sup>. 2008  
PITTCON 2008, March 2<sup>nd</sup>, New Orleans, LA  
MicroScale Bioseparations MSB2008, March 11<sup>th</sup>, Berlin, Germany  
122<sup>nd</sup> AOAC International, Dallas, TX, Sept. 23<sup>rd</sup>
- 2009 PITTCON 2009, March 8<sup>th</sup> – 12<sup>th</sup>, Chicago, IL  
DHS NEE Networking workshop, University of Austin, TX, March 16<sup>th</sup> – 17<sup>th</sup>  
Northeast Regional Life Sciences Core Directors Meeting, Ithaca, NY, Nov. 9 – 11<sup>th</sup>
- 2010 PITTCON, Feb/March, Orlando, FL  
ISEAC, Oct. 5- 9 2010, Rome, Italy
- 2011 Kimberly Clark Scientific Seminar Series, August 19<sup>th</sup>, 2011, Atlanta, GA
- 2012 PITTON in symposium “Multifunctional biomaterials for biosensors and biotechnology,  
Orlando, FL, March 11 – 15<sup>th</sup>,
- 2012 Naval Research Laboratory Colloquium Speaker, April 19<sup>th</sup>, 2012, Washington, D.C.
- 2012 Gordon Research Conference, Bioanalytical Sensors, June 2012, Newport, RI
- 2013 PITTCON in symposium “Emerging technologies for resource limited countries”,  
Philadelphia, PA, March 17-22
- 2013 “Sample preparation for diagnostics” Cambridge Health Institute, Boston, MA, April 10  
– 11<sup>th</sup>,
- 2013 Special seminar “Nano- and microbiosensors” Mongbut University, Thailand,  
November 5<sup>th</sup>, 2013
- 2014 PITTCON 2014 in “Fiber-based analytical platforms”, March, Chicago, IL, USA  
COST Symposium “Electrospinning for high performance sensing”, April 29-30, Roma,  
Italy,  
Keynote Lecture at ISEAC June, Lausanne, CH  
Keynote Lecture, Lab-on-a-Chip systems, Kusadasi, Turkey, September.
- 2015 Gordon Research Conference “Nanoscale Science and Engineering for Agriculture and  
Food Systems ”, Waltham, MA, USA, June 7 – 11, 2015  
Biotronics/Korean Society of Biotechnology (KSBB) 2015 Nanobiotechnology and  
Organ on a chip, Seoul, Korea, October 12 – 14<sup>th</sup>, 2015  
GDCh lecture at the University of Leipzig, November 12<sup>th</sup>, 2015

- 2016 Adlerhof Kolloquium, BAM, February 2<sup>nd</sup>, 2016  
PITTCON, Atlanta, GA, March 6 – 10, 2016  
Gordon Research Conference on Bioanalytical Sensors, June 2016  
ISEAC39, Hamburg, July 2016  
ICREA Nanocontainers Conference, Tarragona, Spain, October 17 – 19, 2016  
Sensors in Food and Agriculture 2016, Cambridge, UK, Nov. 29 – 30, 2016 (keynote)
- 2017 Anakon, Tübingen, April 3 – 6, 2017  
PITTCON2017, Chicago, IL, USA, March 5 – 9<sup>th</sup>, 2017  
FEI Kooperationsforum, April 26<sup>th</sup>, 2017  
Keynote speaker at the 12<sup>th</sup> BBMEC, Rome, September 25 – 29<sup>th</sup>, 2017

**Refereed journal articles and book chapters (h-index 33 citations 3119 (Oct. 2017))**