

Professor and Director

Institute of Analytical Chemistry, Chemo- & Biosensors
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Director

Fraunhofer Institute for Cell Therapy and Immunology,
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Education:

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

Professional Experience

7/1997 - 6/1999 Postdoctoral Fellow, Cornell University
Dept. of Food Science & Technology
7/1999 – 10/2004 Assistant Professor, Cornell University,
Dept. of Biological & Environmental Engineering (BEE)
11/2004 – 10/2008 Tenured Associate Professor, Cornell University (BEE)
11/2008 – 07/2015 Professor Cornell University (BEE)
01/2013 – present Professor (chair), Universität Regensburg
Institute of Analytical Chemistry, Chemo- and Biosensors (IACCB)
08/2015 – present Adjunct Professor, Cornell University (BEE)
01/2013 – present Director of the IACCB, Universität Regensburg
10/2019 – 09/2021 Associate Dean, Faculty of Chemistry&Pharmacy (Universität Regensburg)
10/2022 – 10/2023 Dean, Faculty of Chemistry&Pharmacy (Universität Regensburg)
11/2023 – present Associate Dean, Faculty of Chemistry&Pharmacy (Universität Regensburg)

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
(Universität Regensburg)
09/2023 – present Director of the Branch of Bioanalytics and Bioprocesses (Fraunhofer
Institute for Cell Therapy and Immunology (IZI-BB))

Scientific Leadership Positions

2007 – 2018 Extended Executive Committee of the International Association of
Environmental Analytical Chemistry (IAEAC)
2010 Chair of the Gordon Research Conference on Bioanalytical Sensors
2010 Faculty Fellow, Undergraduate Information Competency Institute
2010 – 2015 Board of Directors of Society for ElectroAnalytical Chemistry (SEAC)

2012 – 2014	Board of the Center for Teaching Excellence at Cornell University
2018 – present	Editor of Analytical and Bioanalytical Chemistry (Springer Nature)
2018 – present	President, IAEAC
2017 – present	Chair of the Biosensor section of the German Chemical Society (GDCh)
2022	Chair of the Gordon Research Conference on Nanoscale Science & Engineering for Agriculture and Food Systems (postponed to 2022)

Consulting and Advisory Boards

1998 – 2000	Seneca Army Depot (NY) Restoration Advisory Board
1999 – 2007	Innovative Biotechnologies International, Inc. (Consultant)
2004	Cleveland Biosensors, Inc. (Consultant)
2007 – 2008	Advisory Board Qiagen GmbH,
2008 – 2009	Rheonix, Inc. (Consultant)
2014 – 2019	Advisory Board KIT Programme BioInterfaces in Technology and Medicine
2017 – 2020	Advisory Board Hamburg School of Food Science

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	Elected Vice-Co chair for Gordon Research Conference "Bioanalytical Sensors"
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 Guest Professorship
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	State University of NY (SUNY) Chancellor Award for Excellence in Teaching
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"
2021	Awarded to be among the 100 most influential analytical scientists (Analytical Scientist)

2023 European Chemical Society, Division of Analytical Chemistry: Robert Kellner Lecture Award 2023

Invited and Keynote Lectures

- 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 18th 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 3rd
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 – 3rd, 2004, Arlington, VA
- 2005 Presidential NLSI Alumni Forum, Chicago, Faculty Presenter, June 1st
- 2006 Gordon Research Conference "Bioanalytical Sensors", Feb. 26th – March 4th, Ventura, CA
PITTCON 2006, March 12 – 17th, Orlando, FL
- 2007 PITTCON 2007, February 25th – March 1st, Chicago, IL
GDCh colloquium, University of Dortmund, Oct. 29th, Dortmund, Germany
Qiagen, Nano(bio)technology seminar series, Dec. 3rd, Hilden, Germany
- 2008 IMM (Institute for Microtechnology, Mainz), Mainz, Germany, Jan. 21st. 2008

- PITTCON 2008, March 2nd, New Orleans, LA
MicroScale Bioseparations MSB2008, March 11th, Berlin, Germany
122nd AOAC International, Dallas, TX, Sept. 23rd
- 2009 PITTCON 2009, March 8th – 12th, Chicago, IL
DHS NEE Networking workshop, University of Austin, TX, March 16th – 17th
Northeast Regional Life Sciences Core Directors Meeting, Ithaca, NY, Nov. 9 – 11th
- 2010 PITTCON, Feb/March, Orlando, FL
ISEAC, Oct. 5- 9 2010, Rome, Italy
- 2011 Kimberly Clark Scientific Seminar Series, August 19th, 2011, Atlanta, GA
- 2012 PITTCON in symposium "Multifunctional biomaterials for biosensors and biotechnology,
Orlando, FL, March 11 – 15th,
- 2012 Naval Research Laboratory Colloquium Speaker, April 19th, 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 – 11th,
- 2013 Special seminar "Nano- and microbiosensors" Mongbut University, Thailand,
November 5th, 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 – 14th, 2015
GDCh lecture at the University of Leipzig, November 12th, 2015
- 2016 Adlerhof Kolloquium, BAM, February 2nd, 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
Keynote Lecture, Sensors in Food and Agriculture 2016, Cambridge, UK, Nov. 29 – 30,
2016
- 2017 Anakon, Tübingen, April 3 – 6, 2017
PITTCON2017, Chicago, IL, USA, March 5 – 9th, 2017
FEI Kooperationsforum, April 26th, 2017
Keynote Lecture at the 12th BBMEC, Rome, September 25 – 29th, 2017
- 2018 PITTCON2018, Orlando, FL, USA, Feb. 25 – March 2nd, 2018
Keynote Lecture at ConFoMa, Minneapolis, MN, Sept. 8 9, 2018
- 2019 PITTCON2019, Philadelphia, PA, USA, March 2019
Keynote Lecture ANAKON 2019, Münster, March 2019
GRC Environmental Nanotechnology, Maine, USA, June, 2019

- 2020 PITTCO2020, Chicago, IL, USA, March 2020
UN meeting on sustainable agriculture, invited delegate, December 2020
- 2021 PITTCO2021, digital, March 2021
NNIN Nanotechnology for sustainable agriculture, March 2021
MRS Boston Fall 2021 meeting, invited speaker, November 2021
15. Dresdner Sensor Symposium, plenary speaker, December 2021
- 2022 PITTCO2022, digital, April 2022
5th POC Symposium, invited speaker, September 2022
Sensors in Medicine, invited speaker, November 2022
- 2023 Biosensor Worldcongress, Busan, South Korea, keynote speaker, June 2023
Euroanalysis, Geneva, Switzerland, plenary speaker, August 2023

>60 general Oral papers presented at professional meetings between 1996 - 2022

> 100 Guest speaker, guest lecturer at seminars, lectures, societies, alumni events between 1997 - 2022

Refereed journal articles and book chapters:

h-index (Web of Science): 44; total citations: 5703 (Jul. 2023)