

K. B. Wagener

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Two Page CV Describing Entire 41 Year Career

PROFESSIONAL EXPERIENCE

1984 to Date: University of Florida (UF), Gainesville. George B. Butler Professor of Polymer Chemistry and Director, Center for Macromolecular Science and Engineering. Teaching, research, and administration related to organic and polymer chemistry. Research group pioneered acyclic diene metathesis (ADMET) polymerization, engaged in synthesis of precision model polymers for polyolefins, biologically directed polymers, morphological investigation of fuel cell membrane polymers, preparation of latent silicon elastomer structures. Joined faculty as Associate Professor of Chemistry in 1984.

ADMET reaction now found in textbooks, internationally recognized as an integral part of polymer chemistry. One of two named reactions to come from the Chemistry Department at UF.

100% Success with NSF and ARO single investigator proposals since late 1980s. No proposal declined by either funding agency during this period, great support for graduate students.

145 Students (undergrad, grad, and postdocs) have passed through the research group to date. See <http://www.chem.ufl.edu/~wagener/> alumni link for photos of all. ~160 International Lectures, ~180 Domestic Lectures; ~350 Abstracted Publications, ~30 Patents during entire industrial and academic career.

1973 to 1984: Akzo Nobel nv, American Enka Research, Enka, NC. Directed activities of 25 people engaged in bulk polymerizations and structure/property determination - research in membranes, nylon, polyester & cellulose fibers, biopolymers, polymerization catalysis, conductive polymers, polymer decomposition, and NMMO solvents for cellulose. Continuous consulting in Europe with this firm the past 30 years.

Promoted four times during this eleven year period in industry (Research Department Head 1983-84; Membrane Research Section Head 1982-83; Research Scientist, Polymers 1976-83; Senior Research Chemist 1973-76).

Finished industrial career as **Technical Director** of Membrana Inc (part of Akzo Nobel at the time) to **create artificial lung** used in heart/lung machines in open heart surgery. This blood oxygenator is used around the world; many people worked on this project, not just me. Last assignment before entering academics in 1984.

1975 to 1984: University of North Carolina at Asheville, NC. Adjunct Professor of Chemistry. Evening teaching after workday; (two courses each year in polymer chemistry, organic mechanisms, polymer characterization, and organic spectroscopy).

AWARDS & PROFESSIONAL RECOGNITION

Academic Awards:

2015 *Wiley-VCH Best of Macromolecular Journals Special Issue of 8 papers*, our publication one of the 8 from over 1,000 papers considered. Also got the issue cover.

2014 Inducted as Fellow of ACS Polymer Division.

2013 Herman F. Mark Polymer Chemistry Award.

2012 Visiting Professorships, ETH/Zürich, MPI/Polymers Mainz, & Kyoto University, Japan.

2011 Inducted as Fellow of the ACS.

2010 ACS Herty Award (Georgia Award).

2009 Max Planck Institut für Polymerforschung Award (given to one person selected annually from international community).

2008 University of Florida College of Liberal Arts and Sciences Teacher of the Year Award.

2007 Alexander von Humboldt **Senior Research Prize** (52 prizes conferred worldwide in all academic disciplines, including medicine, philosophy, etc, not just chemistry).

2004 & 2006 Visiting Scholar, Kyoto University Graduate School of Engineering.

2003 ACS Florida Award.

2003 Inducted as Fellow in the ACS PMSE Division.

2003 Japan Society for the Promotion of Science (JSPS) Fellowship.

2000 Teacher/Scholar of the Year, University of Florida (1 faculty member chosen annually of more than 3,000 on our single campus: also oldest award on campus).

2000 Inducted into Clemson University Academy of Engineers and Scientists (46 members to date).

1997 ACS, Piedmont Section Stone Will Award.

1996 ACS Southern Chemist Award.

1996 Michigan Molecular Institute Turner Alfrey Professorship.

1986 Department of Chemistry Teacher of the Year.

1986-2003 Four University of Florida Research Recognition Awards (top 100 fundraisers on campus).

Awards While In Industry:

1982 Akzo Nobel (American Enka Company) President's Award (Highest Award in company).

1979 Akzo Nobel (American Enka Company) Incentive Stock Award (only chemist and youngest person ever to receive this award, known as "Tiger Stock").

Participation in Editorial Advisory Boards: **Polymer Bulletin** (1997 to 2004), **Macromolecules** (1996 to 1999), **Journal of Polymer Science** (1993 to date), **Macromolecular Chemistry & Physics** (1992 to date), **Acta Polymerica** (1994 to 1999), **Polymer International** (1994 to 1998), **Journal of Macromolecular Science: Chemistry** (1991-97), and Associate Editor, **Applied Petrochemical Research** (2013 to date).

PERSONAL

B.S. Chemistry/Math Minor, Clemson University, 1968 - Ph.D. Organic and Polymer Chemistry, University of Florida, 1973 - Captain (Retired) US Army Reserves - married, two sons - Margaret, former Instructor, Department of English, Santa Fe Community College - David, age 42, BS Mechanical Engineering University of Florida, MS Mechanical Engineering, Clemson University, automotive racing engineer in Greenville, SC - Peter, age 40, BS Computer Engineering University of Florida, employed with Conductor, Inc, In Manhattan.

BOARD MEMBERSHIPS

Scientific Advisory Board, Materia Incorporated, Pasadena, CA (a Caltech Development Company)

Scientific Advisory Board to the President, Braskem Inc., Sao Paulo, Brazil (Annual Sales \$15 Billion)