

CURRICULUM VITAE OF ROBERT MARK WIGHTMAN

- ADDRESS: Department of Chemistry
C.B. 3290 Venable Hall
The University of North Carolina at Chapel Hill
Chapel Hill, N.C. 27599-3290
Telephone: (919) 962-1472
Email: rmw@unc.edu
- BORN: July 4, 1947, Dorchester, Dorset, England, naturalized US citizen.
- EDUCATION: B.A. Degree with honors -Erskine College, Due West, South Carolina, 1968
Ph.D. Degree -The University of North Carolina at Chapel Hill, 1974, Major: Analytical Chemistry with Royce Murray
Postdoctoral Associate, Department of Chemistry, University of Kansas, 1974-1976, with R. N. Adams
- PRESENT POSITIONS: W. R. Kenan, Jr., Professor of Chemistry, UNC-CH, 1989-present
Faculty, Neurobiology Curriculum, UNC-CH, 1989- present
External Faculty, Neuroscience Center, UNC, 2001-present
- FORMER POSITIONS: Department of Chemistry, Indiana University, Bloomington, IN: 1976-1982, Assistant Professor; 1982-1985; Associate Professor; 1985-1989; Full Professor
Research Associate, London Hospital Medical College, Univ. of London, UK. 1984.
Visiting Professor, Duke University Medical Center, Durham, NC, 1997.
Visiting Professor, Anatomy Department, Cambridge University, UK, 2004.
- HONORS: E. A. Sloan Chemistry Award, Erskine College
National Institutes of Health Research Career Development Award (1979-1983)
Alfred P. Sloan Fellowship (1981-1983)
Jacob Javits Neuroscience Investigator Award, NIH (1989)
Chair, Gordon Research Conference on Electrochemistry (1992)
International Program Committee, 7th Catecholamine Symposium
Chemical Instrumentation Award, Analytical Chemistry Division of ACS (1994)
David Graham Award, Physical Electrochemistry Division of the Electrochemical Society (1995)
Charles N. Reilley Award, Society for Electroanalytical Chemistry (1996)
Simon Guggenheim Research Fellowship (1997)
Pittsburgh Analytical Chemistry Award (1997)
Erskine College Academic Hall of Fame (1999)
Electrochemistry Award, Analytical Division of ACS (2001)
Fellow, AAAS (2002-present)
Faraday Medal, Electrochemistry Group, Royal Society of Chemistry (2005)
R. N. Adams Award in Bioanalytical Chemistry, Pittsburgh Conference (2006)
ACS Analytical Chemistry Award (2008)
Sir Bernard Katz Award for Excellence in Research on Exocytosis and Endocytosis, Biophysical Society (2010)
- EDITORIAL BOARDS: *Biosensors & Bioelectronics* (1988-2005)
Instrumentation Advisory Panel, *Analytical Chemistry* (1988-1990)
Journal of Electroanalytical Chemistry (1999-2004)
Journal of Pharmacology and Experimental Therapeutics (1999-2000)
Analytical Chemistry (2001-2003)
Synapse (2004-present)
Annual reviews of Analytical Chemistry (2007-2011)
- SELECT SERVICE: Chair, Gordon Research Conference on Electrochemistry (1992)
UNC-CH Administrative Board of the Library (1991-1994)
UNC-CH Pardue Chair Search Committee (1991)
UNC-CH Chair, Distinguished Term Search Committee, 1993
President, Society for Electroanalytical Chemistry (1997-1999)

Enabling Bioanalytical and Biophysical Technologies (EBT) Study Section, NIH (2001-2005); Chair 2003-2005

UNC-CH Advisory board, Postdoctoral Office (2006-present)

UNC-CH College of Arts and Sciences Dean Search (2006-2007)

UNC-CH Committee on Appointments, Promotion, and Tenure (2006-2009)

UNC-CH Building Naming Committee (2008-present)

UNC-CH University Research Council, subcommittee on Physical Sciences and Mathematics (2008-present)

PROFESSIONAL Society for Neuroscience

ORGANIZATIONS: American Chemical Society (Alternate Counselor, Analytical, 1998-2001)

Society for Electroanalytical Chemistry (Board of Directors, 1985-1990; Secretary, 1985)

Electrochemical Soc., Executive committee, Physical Electrochem. (1987-1989)

American Society for Neurochemistry

RESEARCH Chemical communication between neurons

INTERESTS Voltammetric sensors

FORMER GROUP MEMBERS:

Ph.D. Graduates, present positions: Linda A. Powell (1980), DuPont; Mark A. Dayton (M.D., Ph.D, 1981) Physician, Bloomington, IN.; Kenneth J. Stutts (1982), Dow Chemical Co. (retired); Andrew G. Ewing (1983), Faculty, University of Gothenburg, Sweden; W. Lowry Caudill (1983), Magellan, Inc. (retired); James C. Bigelow (1985), Faculty, Idaho State University; Jonathon O. Howell (1985) BAS; Paul M. Kovach (1986) Eli Lilly; Robert L. Wilson (1986) Proctor & Gamble; Werner G. Kuhr (1986) Zettacore; Mark R. Deakin (1986) Chemist, U.S. Army; Eric W. Kristensen (1987) Abbott Labs; Leslie J. May (1988) Dow Chemical Co.; David O. Wipf (1989) Faculty, Miss. State Univ.; John E. Baur (1990) Faculty, Illinois State Univ.; Joan E. Bartelt (1990) DuPont; David J. Leszczyszyn (M.D., Ph.D, 1990), Faculty, Medical College of Virginia; Donna J. Wiedemann (1991), Proctor and Gamble; Jayne B. Zimmerman (1991) Rohm-Pollenc; David Niehaus (1992) Dupont; Kirk Kawagoe (1992) Faculty, Fresno City College; Jeffrey Jankowski (1993) Faculty, North Central College; Edward Ciolkowski (1993) Upjohn; Sara Jones (1994) Faculty, Wake Forest University; Timothy Schroeder (1994) Proctor and Gamble; Jennifer Finnegan (1995) Glaxo; Karolyn Maness (1995) Upjohn; Karin Pihel (1996) Bayer; Paula Cahill (1996) Eastman Chemical Co; Quan Xin (1997), DuPont Pharmaceutical; Melissa Bunin (1998); Eric Travis (1999) Glaxo; Spencer Hochstetler (1999) Eastman Chemical Co.; Michaux Kilpatrick (1999) UNC Medical School; Darren Michael (2000) Air Force; Joshua Joseph (2000) Proctor and Gamble; Michelle Mundorf (2001) AAI; Petrise Runnels (2001); Erin McDonald (2001) Faculty, Creighton University; Kevin Troyer (2002), Intel; Russell Maus (2002) Merck; Jill Venton (2002) Faculty, University of Virginia; Samuel Forry (2003) NIST; Michael Heien (2005) Faculty, University of Arizona; Garret Stuber (2005) Faculty, University of North Carolina, Chapel Hill; Jacob Ketter (2005) Gamry Corp; Melissa Villaneuva (2006) Medical Student; Andre Hermans (2007) Merck; Andrew Seipel (2007) Postdoc, NIEHS; Justin Kita (2008) FBI; Charles Miller (2008) Eastman Chemical Co, Brian Kile (2009) FBI, Keith Thornley (2009), Jelena Petrovic (2009), Manna Beyene (2009), Natalie Herr.

M.S. Students. (positions): David S. Brown (1987), Cardinal Health.; Mark Philips (1989), Baxter Travenol; Richard White (1990), Eli Lilly; Jodi Kawagoe (1990); Fred Rea (1993); Brad Jackson (1994) BAS; George Mickelson (1996), Ernest Ritchie (1997), Salisbury, NC High School, Mike Logman (2000); Harvey Fries (2001) Merck; Andrew Kennedy (2001); Rebecca Catahan (2002) Glaxo; Joette Russell (2002); Jacqueline Murray (2004); Leah Buhler (2004) Merck.

Postdoctoral Research Associates (positions) : Kenneth G. Wehmeyer (1983-1984), Proctor & Gamble; Richard Kelly (1984-1986), Faculty, East Stroudsburg University; Paul Hale (1986-1987), Moltech Corporation; Adrian C. Michael (1987-1989), Faculty, Univ. of Pittsburgh; Steven M. Drew (1989-1990), Faculty, Carleton College; Robert T. Kennedy (1989-1991) Faculty, University of Michigan; Maryanne Collinson (1992-1994) Faculty, Virginia Commonwealth University; Paul Garris (1990-1995) Faculty, Illinois State University; David Walker (1994-1996) Duke University; Coury Curtis (1996-1998) Merck; Brad Bath (1999-2000) NPS Pharmaceuticals; Andrew Slaterbeck (1998-2000), U.S. Army; Eugeny Budykin (1997-2000) Wake Forest University; Heidi Martin (2000-2002) Faculty, Case Western University; Paul Phillips (1999-2004) Faculty, University of Washington; Donita Robinson (1999-2004) Faculty, University of North Carolina, Chapel Hill; Amina Khan (2003-2004) Research Associate, University of Pittsburgh; Christy Haynes (2003-2005) Faculty, University of

Minnesota; Michael Johnson (2002-2005) Faculty, University of Kansas; Greg McCarty (2004-2005) Faculty, North Carolina State University, Joseph Cheer (2003-2006) Faculty, University of Maryland, Leslie Sombers (2004-2008) Faculty, NC State University, Brandon Aragona (2004-2008) Faculty, University of Michigan, Nii Addy (2007-2010) Faculty, Yale University.

Visiting Faculty: Christian Amatore (1984), Ecole Normale Superieure, Paris, France; George Rebec (1985-1986) Indiana University; Royce Engstrom (1986-1987), Univ. of South Dakota; Paul Flowers (1990,1996), Pembroke State University; Paolo Pastore (1993) University of Padova, Padova, Italy; Ronald Schroeder (1994) Wayne State University; Ricardo Borges (1994) University of La Laguna, Tenerife, Spain; Mark Anderson (2000) Virginia Technical University; Paul Garris (2001-2002) Illinois State University

PRESENT GRADUATE STUDENTS:

Jennifer Ariansen, Anna Belle, Jason Bottcher, Elizabeth Bucher, Elyse Donkoski, Richard Keithley, Pavel Takmakov, Paul Walsh

PRESENT POSTDOCTORAL RESEARCH ASSOCIATES:

Catarina Owesson-White, Jinwoo Park, Parastoo Hashemi, Fabio Cacciapaglia, Zoe McElligott

DISTINGUISHED LECTURESHIPS SINCE 2000:

Plenary lecturer, ESEAC (2000); NIDA Workshop (2000); Catecholamine Symposium, Kyoto, Japan (2001); Elving Lecturer, University of Michigan (2001); Miller Lecturer, Iowa State University (2001); Humphrey Symposium, University of Vermont (2001); International Symposium on bioanalysis, biotechnology, and nanotechnology, ISBNN 2002, Changsa, Hunan, China (2002); Gordon Research Conferences on Catecholamines (2003, 2007); Invited lecturer, ACS Meeting, (2000- 2003, 2005- 2008); International Society of Electrochemistry (Key-note lecturer), Dusseldorf, Germany (2002); Oesper Symposium, Department of Chemistry, University of Cincinnati (2002); Gordon Research Conference on Biosensors (2002), Gordon Research Conference on Electrochemistry, Ventura, CA (2003); Griffin Lecture, University of New Orleans (2003); Symposium speaker, Pittsburgh Conference, (1994-2008, 2010), Premier Lectures in Chemistry, College of Wooster (2003); Frontiers in Chemistry, Department of Chemistry, Case Western Reserve University (2003); 35th Oak Ridge Meeting, American Association of Clinical Chemistry, Arlington, VA (2003); American Vacuum Society (2003), Watkins Visiting Professor, Wichita State University (2003), Amatore Award Symposium, Ecole Normale Superieure, Paris (2003); Iddles Lecturer, University of New Hampshire (2004), Zangweil Club, University of Cambridge (2004), Winter Conference on Brain Research (2003, 2005), Plenary Lecturer, National Convention, Royal Australian Chemical Institute (2005), Faraday Lecture, Electrochemical Group, Royal Society of Chemistry (2005, 2007), Welch Conference on Chemical Research (2005), Symposium on Drug Abuse, University of Minnesota (2006), International Conference on In Vivo Methods (2006), Federation of European Neuroscientists (2006), Pavlovian Society (2006), National Institutes of Drug Abuse (2006), Brain Reward Systems Symposium (2007), International Symposium on Chromaffin Cell Biology (2007), 4th Echems Meeting (2008), Foster Chemistry Colloquium Speaker, University of Buffalo (2008), Pasteur Institute (2008), Symposium on Drug Abuse, Kunming China (2008), Okinawa Institute of Science and Technology (2008), Amy-Mellon Lecture, Purdue University (2008), IDEAS Symposium, ECS (2008), Spicer Lecturer, Georgia Institute of Technology (2009), Mather Lecturer, Indiana University (2009), Workshop on Addiction, Cold Spring Harbor (2009), University of Nebraska (2009); NIDA miniconvention, San Diego (2010).

PUBLICATIONS: Author of more than 350 publications.