FRED WUDL

Dr. h.c., Research Professor of Materials
Department of Materials Engineering
University of California
Santa Barbara, CA 93106-5090
Email: wudl@chem.ucsb.edu

RESEARCH AND TEACHING PROGRAM

FRED WUDL, Research Professor of Chemistry and Materials at the University of California, Santa Barbara (UCSB) from 2011 to date, received his B.S. (1964) and Ph.D. (1967) degree from the University of California, Los Angeles (UCLA) where his dissertation work was done with Professor Donald J. Cram. After postdoctoral research with R.B. Woodward at Harvard, he joined the faculty of the State University of New York at Buffalo. He then moved, first in 1972 to AT&T Bell Laboratories, and subsequently to UCSB in 1982 and then UCLA from 1997 to 2006. He is widely known for his work on organic conductors and super-conductors with the discovery of the electronic conductivity of the precursor to the first organic metal and superconductor. His interest in electronically conducting polymers resulted in discovery of the first transparent organic conductor and the first self-doped polymers. Currently he is interested in the optical and electrooptical properties of processable conjugated polymers as well as in the organic chemistry of fullerenes and the design and preparation of self-mending and self-healing materials. He has received numerous awards and honors and has published over 595 papers with 47,500 citations and H index of 95.

AWARDS AND HONORS

2014	Seaborg Medal, UCLA.
2014	Spiers Award and medal from the RSC
2012	D.Sc. (Honoris Causa), University of Trieste, Trieste, Italy
2010	Fellow of the Royal Society of Chemistry (RSC); Stephanie L. Kwolek Award, RSC
2008	Professional Achievement Award, University of California, Los Angeles
2007	Tolman Medal of the SCALACS
2006	Merck-Karl Pfister Visiting Professor in Organic Chemistry, MIT
2005	Professor C.N.R. Rao Lecture Award of Chemical Research Society of India (CRSI); Honorary Fellow, CRSI
2004	D.Sc. (Honoris Causa), Universidad Complutense, Madrid, Spain
2001	Member, American Academy of Arts and Sciences; Herbert Newby McCoy Award
1997	Alumnus of the Year Award from Los Angeles City College
1996	American Chemical Society Award for Chemistry of Materials; Bayer Lecturer, Cornell University
1994	Wheland Medal, University of Chicago; The "Giulio Natta" Medal, Rome; Clapp Lecturer, Brown University
1993	Arthur D. Little Award; Arthur C. Cope Scholar Award; Stouffer Award, University of Southern California
1992	Visiting Scientist at the C.N.R.S. "Postes Rouge", Orsay, France; William Rauscher Lecturer in Chemistry Award; Karcher Lecturer, University of Oklahoma; Peter A. Leermakers Lecturer; 3M Lecturer, University of British Columbia
1989	Fellow of the American Association for the Advancement of Science
1988	Peter A. Leermakers Lecturer

ACADEMIC POSITION

2011 –	Research Professor of Chemistry and Materials, University of California, Santa Barbara

2011 -	Adjunct Associate Professor of WPI-Advanced Institute for Materials Research, Tohoku University, Japan
2011	Adjunct Associate Professor of NTU, Singapore.
2006 - 2011	Professor of Chemistry and Materials, University of California, Santa Barbara
2008 - 2009	Acting Associate Director, California NanoSystems Institute, UCSB
2006 - 2011	Co-Director CPOS, University of California, Santa Barbara
1997 – 2006	Dean M. Willard Professor of Chemistry (formerly Courtaulds Professor of Chemistry), University of California, Los Angeles
1994 – 1997	Professor, Chemistry and Materials, University of California, Santa Barbara
1982 – 1994	Professor, Chemistry and Physics, University of California, Santa Barbara
1974 – 1982	Supervising Member, Technical Staff, Bell Laboratories, Murray Hill, New Jersey
1972 – 1974	Member, Technical Staff, Bell Laboratories, Murray Hill, New Jersey
1968 – 1972	Assistant Professor, State University of New York, Buffalo, New York

RECENT RESEARCH PUBLICATIONS (More than 500 papers and 20 patents)

1. Li, X.; Wang, H.; Schneider, J. A.; Wei, Z.; Lai, W.-Y.; Huang, W.; Wudl, F.; Zheng, Y., *J. Mater. Chem. C*: **2017**, *5*, 2781-2785.

2. Evans, H. A.; Labram, J. G.; Smock, S. R.; Wu, G.; Chabinyc, M. L.; Seshadri, R.; Wudl, F., *Inorg. Chem.* **2017**, *56*, 395-401.

3. Infinite Polyiodide chains in the Pyrroloperylene-Iodine Complexes, Madhu, Sheri; Evans, Hayden A.; Doan-Nguyen, V. T.; Labram, J. G.; Wu, G.; Chabinyc, M. L.; Seshadri, R; Wudl, F. *Angew. Chem.*, *Int. Ed.,* **2016**, *55*, 8135.

4. (TTF)Pb2I5: A Radical Cation-Stabilized Hybrid Lead Iodide with Synergistic Optoelectronic Signatures.. Evans, H. A.; Lehner, A. J.; Labram, J. G.; Fabini, D. H.; Barreda, O.; Smock, S. R.; Wu, G.; Chabinyc, M. L.; Seshadri, R.; Wudl, F. *Chemistry of Materials* **2016**, *28*, 3607.

5. Thermally Induced Reversible Solid State Transformation of Novel *s*-Indacene 1,3,5,7-Tetraone Derivatives, Shen, Xiaoqin; Zheng, Yonghao; Wudl, Fred, *J. Mater. Chem. C*: Materials for Optical and Electronic Devices **2016**, *4*, 2427.

6. Decacyclene Trianhydride at Functional Interfaces: An Ideal El;ectron Acceptor Material for Organic Electronics Oteyza, D. G.; Garcia-Lastra, J. M.; Toma, F. M.; Borghetti, P.; Floreano, L.; Verdini, A.; Cossaro, A.; Pho, T. V.; Wudl, F.; Ortega, J. E, *J. Phys. Chem. Lett.* **2016**, *7*, 90.