



**Peter J. Stang**

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Peter J. Stang is a Distinguished Professor of Chemistry at the University of Utah, Salt Lake City, Dean at College of Sciences and Senior Fellow at Loker Hydrocarbon Research Institute, Los Angeles.

### Research Interest

Primary focus of Professor Stang's current research is molecular architecture and supramolecular chemistry via self-assembly. The motif used to construct supramolecular species is coordination and chelation to form discrete molecular entities with well defined geometries and shapes. He is particularly interested in the assembly of molecular polygons such as triangles, squares, rectangles, pentagons and hexagons and polyhedra such as tetrahedra, cubes, dodecahedra, cuboctahedra, etc. The ultimate goal of this research is the rapid assembly of nano-scale molecular devices for practical applications such as information storage, artificial photosynthetic devices, etc. Short term interest includes uses molecular recognition, chiral recognition, host-guest interactions, catalysis, enantioselective catalysis, etc.

His group also retains an interest in unsaturated reactive intermediates such as vinyl cations, unsaturated carbenes, polyvalent organoiodine chemistry and alkynyl ester chemistry. Finally, through PQQ-sequestering via iodonium salts, as well as protease and phosphotriesterase inhibition via alkynyl esters his group has some interest in biochemistry.

### Biography

Professor, born 1941. B.S. DePaul University (1963). G.M. Pullman Scholarship (1959-64). Ph.D, University of California, Berkeley (1966). NIH Postdoctoral Fellow Princeton University, Organic Chemistry (1966-68). Assistant Professor, University of Utah,(1969-75). Instructor, Princeton University (1968-69). Associate Professor, University of Utah (1975-79). Visiting Associate Professor, University of Georgia, (1976). Alexander von Humboldt "Senior U.S. Scientist Award"(1977). Present Visiting Scientist, MIT, Cambridge, Mass.

(1978). Professor, University of Utah(1979-1992). Associate Editor, Journal of the American Chemical Society (1982 –1999). David P. Gardner Faculty Fellow (1984). Japan Society for the Promotion of Science (JSPS) Fellow (1985,1998). Elected Fellow of AAAS, (1986). Lady Davis Visiting Professor, Technion, Haifa, Israel,(1986,1997). University of Utah Distinguished Research Award (1987). Fulbright-Hays Scholar, Zagreb, Yugoslavia (1988). Alternate Counselor, and Member Executive Committee, ACS Division of Organic Chemistry (1988–1991). Chairperson, Department of Chemistry, University of Utah (1989 –1995). Mendeleev Lecturer, USSR Academy of Sciences, USSR (1989). Chemistry Department "Outstanding Teaching Award"(1975,1989). Advisory Committee for Fulbright Scholar Awards in Chemistry (1990 – 1993). D.Sc. honoris causa Moscow State University, Moscow Russia (1992). D.Sc. honoris causa, Russian Academy of Sciences (1992). Weissberger-Williams Lecturer, Eastman Kodak Co., N.Y. (1992). BASF Visiting Professor, Kaiserslautern, Germany (1992). Governor's Medal for Science and Technology (State of Utah) (1993). ACS Board Council Committee on Chemical Abstracts (1993-1999). IUPAC, Titular Member, Organic Chemistry Div. Committee (III) (1993-1997). ACS Utah Section Award (1994). University of Utah Rosenblatt Prize for Excellence (1995). Member Advisory Board, Chemical & Engineering News (1995-1997). Council Delegate, AAAS Chemistry Section (1995-1998). NRC Board on Chemical Sciences and Technology (1997-2000). American Chemical Soc. James Flack Norris Award in Physical-Organic Chemistry (1998). Member National Academy of Sciences (2000).

Professor Stang has educated more than 30 Ph.D. students and worked with 40 postdoctoral fellows. He is the author of more than 350 scientific papers in the fields of organic chemistry and coordination chemistry. His recently published book: Templated Organic Synthesis, F. Diederich, P.J. Stang, Eds., Wiley-VCH, Weinheim, 2000.

### Duties

International Advisory Committee, Chemical Research Center, Hungarian Academy of Sciences; Consultant, Dow Chemical Co., Midland, MI. Counselor and Member, Executive Committee, ACS Division of Organic Chemistry. Editorial Advisory Board, Russian Chemical Bulletin. Member, ACS Council Committee on Nominations and Elections. Editor-in-Chief, J. of Organic Chemistry.

### Memberships

American Chemical Society  
American Association for Advancement of Science  
Chemical Society (London)  
National Academy of Sciences