

Biographical Sketch

Warren T. Ford
Regents Professor of Chemistry
Oklahoma State University

Education: Wabash College, Chemistry, A.B. 1963, Cum Laude, Phi Beta Kappa
University of California, Los Angeles, Chemistry, Ph.D., 1967 (with D. J. Cram)
Harvard University, NSF Postdoctoral Fellow, 1967-8 (with P. D. Bartlett)

Appointments

Assistant Professor to Regents Professor, Chemistry, Oklahoma State University, 1978-present
Visiting Professor, Chemistry, UCLA, Jan.-May 2000
Visiting Professor, Organic Chemistry, Univ. of Nijmegen, The Netherlands, Aug.-Dec. 1992
Visiting Professor and Fulbright Fellow, Max-Planck-Institute for Polymer Research, Mainz, Germany, Aug. 1985 – May 1986
Senior Research Chemist, Rohm & Haas Co., Spring House, PA, 1975-78
Assistant Professor of Chemistry, Univ. of Illinois at Urbana-Champaign, 1968-75

Awards and Honors

Fellow of the American Association for the Advancement of Science, 1989
Oklahoma Scientist of the Year (Oklahoma Academy of Sciences), 1996
Oklahoma Chemist of the Year (American Chemical Society), 1999

Synergistic Activities

Co-organizer of Polymers and Organic Chemistry 2002, a biannual international conference.
Co-organizer of numerous symposia at American Chemical Society National Meetings.
Project Coordinator for NanoNet (Oklahoma Network for Nanostructured Materials), one half of the science in the Oklahoma grant from the NSF EPSCoR Infrastructure Improvement Program, 02-01-02 to 05-31-05. NanoNet provides new equipment for shared instrumentation facilities, seed grants for new investigators, graduate student stipends, postdoctoral stipends for interdisciplinary research, and workshops and short courses in nanoscale science and engineering at Oklahoma State University, the University of Oklahoma, and the University of Tulsa.

Current research group: 6 Ph.D. students

Publications most related to this proposal

Ford, W. T.; Nishioka, T.; McCleskey, S.; Mourey, T. H.; Kahol, P. Structure and Radical Mechanism of Formation of Copolymers of C₆₀ with Styrene and with Methyl Methacrylate, *Macromolecules* **2000**, *33*, 2413-2423.
Qin, S.; Qin, D.; Ford, W. T.; Resasco, D. E.; Herrera, J. E., Polymer Brushes on Single-walled Carbon Nanotubes by Atom Transfer Radical Polymerization of *n*-Butyl Methacrylate, *J. Am. Chem. Soc.* **2004**, *126*, 170-176.
Qin, S.; Qin, D.; Ford, W. T.; Resasco, D. E.; Herrera, J. E., Functionalization of Single Walled Carbon Nanotubes with Polystyrene via Grafting to and Grafting from Methods, *Macromolecules* **2004**, *37*, 752-757.
Qin, S.; Qin, D.; Ford, W. T.; Herrera, J. E.; Resasco, D. E.; Lian, G.; Bachilo, S.; Weisman, R. B., Solubilization and Purification of Single-Wall Carbon Nanotubes by In Situ Radical Polymerization of Sodium 4-Styrenesulfonate, *Macromolecules* **2004**, *37*, 3965-3966.

Guldi, D. M.; Ramey, J.; Marcaccio, M.; Paolucci, D.; Paolucci, F.; Qin, S.; Ford, W. T.; Balbinot, D.; Jux, N.; Tagmatarchis, N.; Prato, M.; Donor-acceptor nanoensembles of soluble carbon nanotubes, *Chemical Communications* **2004**, in press.

Other significant publications

Miller, P. D.; Ford, W. T., A Survey of Alkyl Methacrylate Latexes As Aqueous Catalytic Media, *Langmuir* **2000**, *16*, 592-596.

Chen, Y.; Ford, W. T.; Materer, N. F.; Teeters, D., Facile Conversion of Colloidal Crystals to Porous Polymer Nets, *J. Am. Chem. Soc.* **2000**, *122*, 10472-10473.

Xu, Z.; Ford, W. T., Polystyrene Latexes Containing Poly(propyleneimine) Dendrimers, *Macromolecules* **2002**, *35*, 7662-7668.

Qin, D.; Tan, S.; Qin, S.; Ford, W. T., Monitoring the Transformation of Colloidal Crystals by Styrene Vapor Using Atomic Force Microscopy, *Langmuir* **2004**, *20*, 3145-3150.

Tan, S.; Sherman, R. L., Jr.; Ford, W. T., Nanoscale Compression of Polymer Microspheres by Atomic Force Microscopy, *Langmuir* **2004**, *20*, 7015-7020.

Collaborators , current and last 4 years

B. Ackerson, N. Materer, R. Matts, J.

Mintmire, S. Roy, H. O. Spivey, and J.

Wicksted, OSU

L. Bokobza, Paris

R. Colby, Penn State

F. D'Souza, Wichita State

J. Goodwin, IDC Corp.

B. Grady, Oklahoma

D. Guldi, Erlangen, Germany

P. Kahol, Wichita State

N. Kotov, OSU, now Michigan

W. Kutner, Polish Academy of Sciences

A. Mamedov, Nomadics, Inc.

J. Mark, Cincinnati

M. Motamedi, UTMB Galveston

T. Mourey, Eastman Kodak

D. Resasco, Oklahoma

M. Rubinstein, North Carolina

D. Teeters, Tulsa

S. Tolbert, UCLA

P. Tong, Hong Kong

R. Vold, William & Mary

R. B. Weisman, Rice

J. Zhu, Montreal

Ph.D. Advisor: The late D. J. Cram, UCLA

Postdoctoral Advisor: The late P. D. Bartlett, Harvard

Thesis Advisor and Postgraduate-Scholar Sponsor, last 5 years

K. Hampton, Eastman Chemical Co.

J. Kreider, Milliken Co.

A. Lary, Pharmacia, Inc.

P. Miller, U. of Wisconsin-La Crosse

T. Nishioka, Ibaraki, Japan

Y. Pan, Affymax Research Inst.

S. Pilcher, Northeastern Oklahoma State U.

D. Qin, Polytechnic Univ.

S. Qin, Univ. of Pennsylvania

E. Seabolt, PolyDyne Development Corp.

K. Vassilev, Bourgas, Bulgaria

Y. Chen, Schlumberger, Inc.

Z. Xu, Hubei Univ., Wuhan, PRC