

**Daniel E. Resasco**  
*S. A. Wilson Professor of Chemical Engineering and  
George Lynn Cross Professor*

EDUCATION:

- Ph.D., Chemical Engineering, Yale University, New Haven, CT, (1984).
- BS, Chemical Engineering, Universidad Nacional del Sur, Argentina. Dec. 1975.

AWARDS AND RECOGNITIONS:

- Advancement of Basic and Applied Science Award.  
Yale Science and Engineering Association. April 2004
- G. L. Cross Research Professor April 2003
- Sam Wilson Professor of Chemical Engineering, February 2002
- Regents Award for Superior Research. U. Oklahoma, April 1999
- Janet and Ken Smalley Presidential Professorship, U. Oklahoma, April 1996
- Outstanding Chemical Engineering instructor. Selected by OU ChE students.  
May 1997 and May 1999
- Bernardo Houssay Award for scientific achievement. National Research Council of  
Argentina, December 1987
- Harding Bliss Prize for excellence in Engineering and Applied Science. Engraved silver  
bowl. Yale University, May 1984

PROFESSIONAL EXPERIENCE

- Professor. 1998 to date. Associate Professor. 1993-1998. University of Oklahoma,
- School of Chemical Engineering and Materials Science,
- Senior Scientist. Sun Company Inc., Marcus Hook, PA, 1991-93
- Professor, Chemical Eng. Dept. National University of Mar del Plata, 1984-90

START-UP COMPANIES

- Co-founder and Chief Scientist. SouthWest Nanotechnologies, producer of high-quality  
single-walled carbon nanotubes. Company funded by ConocoPhillips, NASA, and NSF

PROFESSIONAL SERVICE

Associate Editor Journal of Catalysis, 2001-to date  
Member, Editorial Board: Applied Catalysis, 1996-2001  
Member Executive Committee, Nanonet Oklahoma (NSF/EPSCOR)  
Member, Executive Committee and Chair, Pre and post congress meetings, XI  
International Congress on Catalysis, Baltimore, 1996

TOTAL NUMBER OF PUBLICATIONS

97 refereed publications; 18 industrial patents; more than 120 presentations and invited talks

## FIVE RECENT PUBLICATIONS RELATED TO THE PROPOSAL

- “Narrow (n,m)-Distribution of Single-Walled Carbon Nanotubes Grown Using a Solid Supported Catalyst.” Bachilo, S. M.; Balzano, L.; Herrera, J. E.; Pompeo, F.; Resasco, D.E.; Weisman, R. B. *Journal American Chem. Society* (2003), 125, 11186
- “Raman Characterization of SWNT of Various Diameters Obtained by Catalytic Disproportionation of CO” J. E. Herrera, L. Balzano, F. Pompeo, and D.E. Resasco. *Journal of Nanoscience and Nanotechnology*, 3 (2003) 1-6.
- “Role of Co-W Interaction in the Selective Growth of Single-Walled Carbon Nanotubes from CO Disproportionation” Herrera, Jose E.; Resasco, Daniel E. *Journal of Physical Chemistry B* (2003), 107(16), 3738-3746.
- “Characterization of single-walled carbon nanotubes (SWNT) produced by CO disproportionation on Co-Mo catalysts” W. E. Alvarez, F. Pompeo, J. E. Herrera, L. Balzano, and D. E. Resasco. *Chemistry of Materials* 14 (2002) 1853-1858
- “Relationship Between the Structure/Composition of Co-Mo Catalysts and their Ability to Produce Single-Walled Carbon Nanotubes by CO Disproportionation” J. E. Herrera, L. Balzano, A. Borgna, W. E. Alvarez, D. E. Resasco, *Journal of Catalysis* 204 (2001) 12971.

## OTHER RELEVANT PUBLICATIONS

- “A Scalable Process for Production of Single-Walled Carbon Nanotubes (SWNT) by Catalytic Disproportionation of CO on a Solid Catalyst” D. E. Resasco, W. E. Alvarez, F. Pompeo, L. Balzano, J. E. Herrera, B. Kitiyanan, and A. Borgna, *Journal of Nanoparticle Research* 4 (2002) 131-136
- “Synergism of Co and Mo in the catalytic production of single-wall carbon nanotubes by decomposition of CO” W. E. Alvarez, B. Kitiyanan, A. Borgna, and D. E. Resasco, *Carbon*, 39 (2001) 547-558
- “Controlled production of single-wall carbon nanotubes by catalytic decomposition of CO on bimetallic Co-Mo catalysts” B. Kitiyanan, W. E. Alvarez, J. H. Harwell, D. E. Resasco. *Chemical Physics Letters* 317 (2000) 497
- Book Chapter: “Structural Characterization of Single-Walled Carbon Nanotubes” Daniel E. Resasco and Jose E. Herrera. *Encyclopedia of Nanoscience and Nanotechnology*, (2003) Amer. Sci. Publ. (H. S. Nalwa Ed.), Vol. 10, pp 1-23.
- “In-Situ TPO/Raman to Characterize Single-Walled Carbon Nanotubes” Jose E. Herrera and Daniel E. Resasco. *Chem. Phys. Lett* (2003), 376, 302-309.