
Kenneth S. Suslick

*School of Chemical Sciences
University of Illinois at Urbana-Champaign
Chemical & Life Sciences Laboratory
600 S. Mathews Av.
Urbana, Illinois 61801*

*Office: (217) 333-2794
Lab: (217) 333-1532
Fax: (217) 333-2685
Email: ksuslick@uiuc.edu
Web: www.scs.uiuc.edu/suslick*

Education:

- 1978 Ph. D. Stanford University, *Synthetic Analogs of Myoglobin and Hemoglobin*.
1974 B. S. California Institute of Technology (with Honors).

Research and Professional Positions:

- 2004 – *Marvin T. Schmidt* Professor of Chemistry, University of Illinois at Urbana-Champaign.
2009 Acting Director, School of Chemical Sciences, University of Illinois at Urbana-Champaign.
2008 – Co-Founder; iSense Systems, LLC., Champaign, IL/Palo Alto, CA.
1997 – 04 *William H. & Janet Lycan* Professor of Chemistry, University of Illinois at Urbana-Champaign.
2001 – 07 Founder and Member of Board of Directors; ChemSensing, Inc., Champaign, IL.
1988 – Professor of Chemistry, University of Illinois at Urbana-Champaign.
1993 – Professor of Materials Science and Engineering, University of Illinois at Urbana-Champaign.
1993 – 98 Member, Board of Directors; Ney Ultrasonics Inc.; Bloomfield, Connecticut.
1994 – 98 Member, Scientific Advisory Board; VivoRx Inc.; Santa Monica, California.
1995 – 97 *Alumni Research Scholar* Professor of Chemistry, University of Illinois at Urbana-Champaign.
1989 – 92 Professor, Beckman Institute for Advanced Science and Technology.
1986 Visiting Fellow, Balliol College and Inorganic Chemistry Laboratory, Oxford University.
1984 – 88 Associate Professor, University of Illinois at Urbana-Champaign.
1978 – 84 Assistant Professor, University of Illinois at Urbana-Champaign.
1974 – 78 Research and Teaching Assistant, Stanford University.
1974 – 75 Chemist, Lawrence Livermore Laboratory, O-Group, Physics Division; Laser Isotope Separation.
1971 – 74 Research and Teaching Assistant, California Institute of Technology.
1972 AEC Research Trainee, University of California, Berkeley.

Honors and Awards:

- 2011 Fellow, Guggenheim Memorial Foundation.
2010 Fellow, American Chemical Society.
2010 3ème Cycle Lectureship, Switzerland.
2009 – Fellow, Materials Research Society (limited to 0.2% of MRS membership).
2009 Acoustical Society of America Mentorship Award.
2008 Sir George Stokes Medal, Royal Society of Chemistry.
2008 Charles William Murtiashaw III Lectureship, University of South Carolina, Columbia.
2006 Harold S. Johnston Lectureship in Physical Chemistry, University of California, Berkeley.
2004 American Chemical Society Senior Cope Scholar Award.
2003 J.T. Donald Lectureship, McGill University, Montreal.
2002 – 03 Fellow, Center for Advanced Study, UIUC.
2001 Wolfgang Göpel Award, International Society for Olfaction & Chemical Sensing.
2000 1st Place, Illinois Technology Center Inventorship Competition.
1997 University of Melbourne Special Public Lectureship.
1997 W. Heinlen Hall Lectureship, Bowling Green State University.
1994 American Chemical Society Nobel Laureate Signature Award for Graduate Education.
1994 Materials Research Society Medal for Exceptional Recent Achievements in Materials Research.
1992 – Fellow, American Association for the Advancement of Science.
1994 – Fellow, Acoustical Society of America.
1994 Robert A. Welch Foundation Lecturer.
1994 Senior University Scholar, University of Illinois.
1992 – 94 NSF Special Creativity Extension Award.
1993, 1985 Excellence in Teaching Award, UIUC School of Chemical Sciences.
1991 – 92 Beckman Associate, UIUC Center for Advanced Study.
-

Honors and Awards (continued):

- 1985 – 87 Alfred P. Sloan Foundation Research Fellow.
1985 – 90 NIH Research Career Development Award.
1979 – 80 DuPont Young Faculty Fellow.
1974 – 78 Silver Medal and Fellow, Royal Society for the Arts, Manufactures, and Commerce (London).
1974 – 78 Hertz Foundation Predoctoral Fellowship.
1973 American Chemical Society Undergraduate Award in Analytical Chemistry.

H-Index and Citations:

- h-index = 68 (i.e., 68 papers each with 68 or more citations).
Total citations: >15,900.
Average Citations per Article: 68.2.

Recent Special and Invited Lectures (past 10 years):

2012

- Keynote Speaker, 8th Intl. Symposium on Cavitation, Singapore.
Invited Lecturer, 19th International Symposium on Nonlinear Acoustics, Tokyo.
Invited Speaker, Acoustics 2012, Hong Kong.
Invited Speaker, Eurotrode IX, Barcelona.

2011

- Invited Speaker and symposium organizer, Intl. Symp. on Olfaction & Electronic Noses (ISOEN-2011), NYC.
Invited Speaker, Nonlinear Acoustics Symposium, Acoustical Society of America National Meeting, Seattle.
Invited Speaker, Gordon Research Conference on Detecting Illicit Substances, Lucca, Italy.
Invited Speaker, Materials & Molecular Design & Discovery Initiative, Argonne National Laboratory.
Provost's Visiting Scholars and Artists Program, Western Michigan University.

2010

- Invited Speaker, Sonochemistry Symposium, Pacificchem 2010, Honolulu.
Invited Speaker, Targeting Chem. & Biol. Warfare Agents Symposium, Pacificchem 2010, Honolulu.
3ème Cycle Lectures: Universities of Fribourg, Neuchatel, Geneva, and Bern.
Schwinger Foundation Symposium on Spontaneous Energy Focusing Phenomena, NTU, Singapore.
Invited Speaker, 2010 Association for Crystallization Technology Meeting, New Brunswick, NJ.
Plenary Lecturer, 12th Meeting of the European Sonochemistry Society, Chania, Crete.
Invited Speaker, 6th Intl. Conference on Porphyrins & Phthalocyanines, Albuquerque.

2009

- Invited Speaker, Symposium on New Sensors for Environmental Monitoring, Pittsburgh Conference (PittCon), Chicago.
Invited Speaker, Workshop on New Sensor Technology, Solvay Corp., Brussels, Belgium.
Plenary Lecturer, Beijing Conference & Exhibition on Instrumental Analysis (BCEIA '09), Beijing.
Invited Speaker, Department of Chemistry, Peking University, Beijing.
Invited Speaker, Department of Chemistry, Tsinghua University, Beijing.

2008

- Invited Speaker, Acoustics '08 (Acoust. Soc. Am./Euro. Acoust. Assoc.), Paris.
Keynote Lecturer, Ultrasonics Industry Association Meeting, Washington, D.C.
Murthiashaw Lecture, University of South Carolina, Columbia.
Colloquium Speaker, Department of Chemistry, University of Arkansas, Fayetteville.
Invited Speaker, Pittsburgh Conference (PittCon), New Orleans.
Colloquium Speaker, Department of Chemistry, University of Utah.
Colloquium Speaker, Department of Chemistry, University of Missouri, Columbia.
Awards Speaker, Royal Society of Chemistry Meeting, Dublin.
Invited Speaker, Acoustics '08 (155th ASA Mtg., 2nd Jt. ASA-EAA Joint Conf., 60th SFA Mtg.), Paris.
Invited Speaker, 12th Intl. Meeting on Chemical Sensors, Columbus.

2007

Keynote Lecturer, International Workshop on Applied Sonochemistry, Melbourne.
Plenary Lecturer, Japanese Sonochemistry Society Meeting, Kyoto.
Invited Speaker, Symposium on Sensors and Sensor Networks, 234th ACS National Meeting, Boston.
Invited Speaker, Symposium on Photocatalysis and Solar Energy Conversion, 234th ACS National Meeting, Boston.
Invited Speaker, Annual Conference of the International Association of Culinary Professionals, Chicago.
Invited Speaker, Joint US-Japan Symposium on the Chemistry of Coordination Space, Northwestern University.
Invited Speaker, DOE User Symposium, Argonne National Laboratory.

2006

Invited Speaker, Pittsburgh Conference (PittCon), Orlando.
Invited Speaker, Eastern Analytical Symposium, Somerset, NJ.
Invited Speaker, Symposium on Chemistry under Extreme Conditions, 232nd ACS National Meeting, San Francisco.
Invited Speaker, Symp. on Bioinorganic and Organometallic Catalysis, 232nd ACS National Mtg., San Francisco.
Invited Speaker, MRS National Meeting, Sensor Symposium, San Francisco.
Harold S. Johnston Lectureship in Physical Chemistry, University of California, Berkeley.
Invited Speaker, 4th International Conference on Porphyrins and Phthalocyanines, Rome.
Invited Speaker, Gordon Research Conference on Tribology, Colby, ME.
Plenary Lecturer, Sociedade Brasileira de Química, 29th National Meeting, Águas de Lindóia, Brazil.
Invited Speaker, Symp. on Chemical & Biological Countermeasure Technologies, Dept of Homeland Security, Boulder.
Invited Speaker, Biennial Symposium, Combating Terrorism Technology Support Office (CTTSO), Washington, DC.

2005

Invited Speaker, Bioeffects of Ultrasound Symposium, Acoustic Soc. Amer. National Meeting, Vancouver, BC.
Invited Speaker, Symp. on Sensor Integration, Materials Research Society National Meeting, San Francisco.
Invited Speaker, Symp. on Nanotechnology for Bioanalysis and Biomedical Applications, Pacificchem 2005, Honolulu.
Invited Speaker, Symp. on Chemical Sensors, Biosensors and Sensing Technologies, Pacificchem 2005, Honolulu.
Invited Speaker, Symp. on Chemical Effects of Ultrasound, Pacificchem 2005, Honolulu.
Invited Speaker, Symp. on Advances In Power Ultrasound, International Food Safety & Quality Conference, New Orleans

2004

Plenary Lecturer, European Sonochemistry Society, Badajoz, Spain.
Plenary Lecturer, ISOME-04 (Intl. Symp. Organic Molecular Electronics), Kyoto, Japan.
Invited Speaker, Gordon Research Conference on Water and Aqueous Systems, Holderness, NH.
Award Speaker, Cope Scholar Symposium, ACS National Meeting, Philadelphia.
Invited Speaker, Delwart Foundation Symposium on Chemical Sensing, Communication, and Ecology.
Plenary Lecturer, Intl. Symposim on Molecular Sensing, National Taiwan University, Taipei, Taiwan.
Visiting Lecturer, Taiwan National Science Council.
Cherry Emerson Lecturer, Georgia Institute of Technology.
Invited Speaker, 3rd International Conference on Porphyrins and Phthalocyanines, Dijon.

2003

J.T. Donald Lecturer, McGill University, Montreal.
Invited Speaker, World Congress on Ultrasonics, Paris.
Five College Lecturer (Amherst, Mount Holyoke, Smith, Hampshire and U. Mass. Amherst).
Invited Speaker, Gordon Research Conference on Chemical Sensors.
Invited Speaker, Symposium on Sonoluminescence, Acoustic Society of America Mtg., Nashville.
Frontiers of Chemistry Lecturer, Wayne State University.

2002

Invited Lecturer, 16th International Symposium on Nonlinear Acoustics (ISNA-16), Moscow.
Invited Speaker, 9th Intl. Symp. on Olfaction & Electronic Noses (ISOEN-2002), Rome.
Plenary Lecturer, Catalyst Club of Chicago.
Invited Speaker, Symposium Honoring J. I. Brauman, Stanford University.
Invited Speaker, Symposium Honoring R. G. Bergman, University of California, Berkeley.
Invited Speaker, Chicago Technology Forum 2002.

2001

Plenary Lecturer, EURODEUR-AIRODEUR Conference, Paris.
Invited Speaker, 8th Intl. Symp. on Olfaction & Electronic Noses, Washington, D.C.
Plenary Lecturer, 17th Intl. Congress on Acoustics, Rome.
Plenary Lecturer, World Congress on Ultrasonics/IEEE Intl. Ultrasonics Symposium, Atlanta, GA.

Editorships and Editorial Boards:

- 2006 – 09 Editorial Board, *Journal of the American Chemical Society*.
2005 – 08 Editorial Board, *Accounts of Chemical Research*, American Chemical Society.
1996 – Editorial Board, *Ultrasonics Sonochemistry*, Elsevier Science Publishers.
1996 – Founding Editorial Board, *Journal of Porphyrins and Phthalocyanines*, Wiley Publishers.
1997 – 98 Co-editor, *Sonochemistry and Sonoluminescence*, Kluwer Academic Publishers.
1993 – 1996 Founding Editorial Board, *Intl. J. of Mechanochemistry & Mech. Alloying*, Cambridge Interscience.
1993 – 1996 Founding Editorial Board, *Advanced Oxidation Technologies*, AOT Press.
1993 – 96 Volume Editor, *Comprehensive Supramolecular Chemistry*, Elsevier/Pergamon Press.
1993 – 96 Founding Editor, *Ultrasonics Sonochemistry*, Elsevier Science Publishers.
1992 – 96 Editorial Board, *Ultrasonics*, Elsevier Science Publishers.
1991 – 94 Editorial Board, *Research on Chemical Intermediates*, Elsevier Science Publishers.
1990 Guest Editor, Special Issue on Sonochemistry, *Ultrasonics*, Butterworth Publishing.
1985 – 87 Editor, *Ultrasound: Its Chemical, Physical, and Biological Effects*, 1st ed.; VCH Publishers.
1986 – 87 Editor, *High Energy Processes in Organometallic Chemistry*, ACS Books.

Professional Society Memberships:

- Acoustical Society of America (*Fellow*)
Alpha Chi Sigma (Professional Chemistry Fraternity)
American Association for the Advancement of Science (*Fellow*)
American Chemical Society (*Fellow*)
American Physical Society
European Sonochemistry Society (Charter Member)
International Mechanochemical Association (IUPAC chartered)
Materials Research Society (*Fellow*)
Royal Society for the Arts, Manufactures, and Commerce, 1974–82 (*Fellow*)

Major Research Funding (past 10 years):

- 2011 – 15 ONR, Basic Research Challenge Program; co-PI with D. D. Dlott; "Spontaneous energy concentration in energetic molecules, interfaces and composites: response to ultrasound and THz radiation" \$1,200,000/4 yr.
2010 – 13 NSF; "Chemical Effects of High Intensity Ultrasound: Sonoluminescence" \$521,845 / 3 yr.
2010 – 12 Energy Biosciences Institute; "Ultrasound for Lignocellulosic Biofuel Production" \$241,861 / 2 yr.
2010 – 12 NSF; "New Synthetic Methodologies for Nanostructured Materials Using Ultrasound" \$340,000 / 2 yr.
2007 – 12 NIH; "A VOC Dosimeter Based On A Colorimetric Sensor Array" \$2,460,000 / 5 yrs.
2006 – 11 DOE; UIUC Materials Res. Lab, "Nanoparticle Oxides for Photochemical Water Splitting," \$120,000 / yr.
2010 – 11 DARPA/Army; "Probing the Limits of Cavitation, Sonoluminescence & Mechanoluminescence" \$213,000/yr.
2003 – 08 NSF-CHE; "Chemical Effects of High Intensity Ultrasound" \$562,500 / 4 yrs.
2006 – 08 TSWG, DoD; "Colorimetric Sensor Array for Detection of Toxic Industrial Chemicals" \$535,388 / 2 yrs.
2004 – 07 HSARPA; "Ultra-Portable Chemical Sensors based on Chemoresponsive Dye Arrays" \$327,120 / yr.
2005 – 07 NSF-BES; "SENSORS: Colorimetric MicroArrays" \$168,000 / 2 yrs.
2000 – 05 DARPA; "Chemical Control of Single Bubble Cavitation" \$737,121 / 5 yrs.
2000 – 05 NIH 5R01-HL25934 "Heme Proteins, Microspheres, and Their Synthetic Analogs" \$1,365,000 / 4 yrs.
1990 – 06 DOE; UIUC Materials Res. Lab, "Field Responsive Materials," \$120,000 / yr.
1997 – 02 DOD; Army MURI, "Dendrimeric Materials," Multi-PI proposal; K.S.S. portion: \$100,000 / yr.
1999 – 03 NSF; "Chemical Effects of Ultrasound," \$480,000 / 3 yrs.
2000 – 02 PG Research Foundation "Ultrasonic Gas Dispersion and Dissolution" \$52,933.

Student and Postdoctoral Associates, Past and Present:

- 14 Ph.D. Graduate Students presently in group.
2 Postdoctoral Research Associates presently in group.
52 Ph.D. Graduate Students supervised and theses completed.
29 Past Postdoctoral Research Associates.
8 M.S. Graduate Students supervised and theses completed.
18 Undergraduate Research Assistants supervised.

Other Invited Lectures and Presentations (>450 total)

2012

Swarthmore College, Swarthmore, PA
243rd ACS National Meeting, San Diego
European Sonochem. Soc. Mtg., Lviv, Ukraine

2011

Iowa State University (Dept. of Physics), Ames
3M R & D Center, Minneapolis
University of Western Michigan, Kalamazoo
241st ACS National Meeting, Anaheim

2010

University of North Texas, Denton
University of California, Davis
University of Geneva
University of Lausanne
University of Berne
University of Fribourg
University of Neuchâtel

2009

California Institute of Technology
University of California, Riverside
Acoustical Society of America Mtg., San Antonio
MRS National Meeting, San Francisco
NIH ChemSensors Steering Committee
238th ACS National Meeting, Washington, DC

2008

University of Arkansas
University of Missouri, Columbia
University of Utah
12th Intl. Mtg. Chem. Sensors, Columbus
Wright-Patterson AFB (July, 2008)
Bench to Boardroom Symposium, UIUC Center
for Entrepreneurship (Oct., 2008)
235th ACS National Meeting, New Orleans

2007

Dept. of Physics, Univ. New Brunswick, Fredericton, NB
Truman State University, Kirksville, MO
Bowling Green State University
234th ACS National Meeting, Boston
233rd ACS National Meeting, Chicago

2006

Universidade Federal do Parana, Curitiba, Brazil
Abilit Corp., Osaka, Japan
Hamano Life Sciences Research Foundation, Tokyo
University of Nebraska, Lincoln
Materials Science and Engineering, UIUC
Northern Illinois University, DeKalb, IL
HSARPA Contractors Meeting, Boulder, CO
TSWG DoD Contractors Meeting, Washington DC
232nd ACS Natl. Mtg., San Francisco
Chemical Biological Incident Response Force (CBIRF)
Naval Surface Warfare Center, Indian Head, Md
231st ACS National Meeting, Atlanta

2005

230th ACS National Meeting, Washington DC
MRS National Meeting, San Francisco
Texas A&M University
Boston College
ACS Regional Meeting, Peoria
229th ACS Natl. Meeting, San Diego

2004

Univ. of Texas Southwestern Medical Center at Dallas
Academia Sinica, Taipei, Taiwan
National Chiayi University, Taiwan
Georgia Institute of Technology
228th ACS Natl. Meeting, Philadelphia
Colgate Palmolive Corporate Research, NJ

2003

225th ACS Meeting, New Orleans
UIUC Dept. of Food Science and Human Nutrition
Ultrasonics Industry Association Technical Symp.
Northwestern University
Colgate Palmolive Corporate Research, NJ
DARPA
University of California, Irvine

2002

University of Notre Dame
University of Akron
University of Delaware
Pfizer Pharmaceuticals, Groton, CT
223rd ACS Natl. Mtg., Boston
3M Technology Center, Minneapolis
Abbot Pharmaceuticals, North Chicago
Colgate Corporate Research, Piscataway, NJ
Avery-Dennison, Cincinnati
Argonne National Laboratory, Argonne, IL

2001

University of Michigan
Massachusetts Institute of Technology
Motorola Adv. Tech. Center, Schaumburg, IL
Federal Bureau of Investigation, Washington, D.C.
Colgate-Palmolive Co., Piscataway, NJ
Procter & Gamble Corp., Cincinnati, OH
University of Illinois at Urbana-Champaign, MATSE
Mayo Clinic, Biomed. Eng., Rochester, MN
221st ACS Natl. Mtg., San Diego

2000

University of California, Santa Barbara
PacifiChem 2000, Honolulu
Illinois Technology Center, Savoy
220th ACS Natl. Mtg., Washington, D.C.
219th ACS Natl. Mtg., San Francisco
University of Wisconsin, Madison
DARPA Symposium on Meta-Materials

1999

Pittsburgh Conference Lectureship, Duquesne University.
Invited Speaker, 82nd Canadian Soc.Chem. Conf., Toronto.
Invited Speaker, 15th Intl Symp Nonline Acoust, Göttingen.
218th ACS Natl. Mtg., New Orleans
217th ACS Natl. Mtg., Anaheim
University of New Orleans, Adv. Matl. Res. Inst
University of Missouri, St. Louis
MURI Conference, Aberdeen Proving Grounds, MD
University of Colorado
Colorado State University
University of Wyoming

1998

Invited Speaker, DARPA Sonolum. Workshop, Arlington.
Invited Lecturer, 6th Mtg. European Sonochem. Soc.,
Rostock.
Invited Speaker, Acoustic Soc. Amer. Mtg., Seattle.
Director's Colloquium Speaker, Los Alamos Natl. Lab.
Invited Speaker, Gordon Research Conference, Chemistry
and Biology of Tetrapyrroles.
Invited Speaker, DARPA Workshop on Sonoluminescence
Invited Speaker, Acoustic Soc. Amer. Mtg., Seattle
9th Midwest Organic Solid State Chemistry Symposium
216th ACS Natl. Mtg., Boston
Ball State University
DOE EMSP Symposium, Chicago
DOA Dendrimer MURI Symposium, Natick

1997

Plenary Lecturer, COST Intl. Meeting on Chemistry
Under Extreme Conditions, Santorini, Greece.
Instructor, NATO Adv. Study Institute on Sonochemistry
and Sonoluminescence, Leavenworth, WA.
Plenary Lecturer, IEEE Intl. Ultrasonics Symp., Toronto.
University Special Public Lecturer, U. of Melbourne.
Invited Speaker, 8th Intl. Conf. Bioinorg. Chem, Yokohama.
Invited Speaker, 213rd ACS Natl Mtg, Las Vegas.
Invited Speaker, Symp. on Sonoluminescence,
James Franck Institute, University of Chicago.
Chemical & Life Sciences Laboratory Dedication Speaker,
University of Illinois.
Invited Speaker, Science Innovation Symposium,
AAAS National Meeting, Seattle.
Indiana University, Bloomington
Indiana University-Purdue University at Indianapolis
ACS Chicago Section Meeting, Plenary Lecturer
Saturday Outreach, Dept. Physics, UIUC
213th ACS Natl. Mtg., Las Vegas
University of Minnesota
Great Lakes Regional ACS Meeting, Chicago

1996

3rd NSF Workshop on Materials Chem., Philadelphia.
Colloquium Lecturer, Franck Institute, U. Chicago.
Acoustical Society of America Meeting, Honolulu.
Plenary Lecturer, 5th Meeting of the European
Sonochemistry Society, Cambridge.

4th Intl. Conf. Molecular Reaction Dynamics in
Condensed Matter, Newport Beach.
Am. Phys. Soc. Mtg., St. Louis.
University of Northern Iowa
Lawrence Livermore Natl. Labs
Stanford University
Inorg Awards Symp., 212th ACS Natl Mtg., S.F.
TAM, UIUC
Regional ACS Mtg., ISU
Invited Speaker, Symposium on Hybrid Materials,
211th ACS National Meeting, New Orleans.

1995

Pacificchem '95, Honolulu.
210th ACS Natl. Mtg., Chicago.
Materials Research Society Meeting, Boston.
Keynote Speaker, Ultrasonics Industry Association
Technical Meeting, Columbus.
Ultrasonics in Biophy. Bioeng. Symp., Allerton Park.
ISMANAM-95, Quebec.
209th ACS Natl. Mtg., Anaheim.
University of Pennsylvania
Iowa State University, Ames
Grinnell College, Grinnell, Iowa
Kimberley-Clark Corporate Research
Central States Microscopy Soc. Meeting
Ohio State University, Columbus

1994

Naval Research Laboratory, Washington, DC
Society for Biomaterials, Boston
North Carolina State University, Raleigh
Free University of Brussels, Belgium
University of California, Berkeley
Concordia University, Montreal
University of Texas at Austin
IEEE Eng. Med. Biol. Mtg., San Diego
Stanford Colloid Symposium, Stanford
Moderator, Ultrasonics in Biophysics and
Bioengineering Symp., Allerton Park
Soc. Magn. Reson. Medicine, San Francisco
Materials Research Soc. Spring Mtg., S.F.
207th ACS National Meeting, San Diego
Dow-Elanco, Indianapolis

1993

Invited Speaker, 1st NSF Workshop on
Materials Chemistry, Albuquerque.
IEEE Ultrasonics '93 Symposium, Baltimore.
Invited Speaker, 6th ICBIC, San Diego.
Keynote Speaker, Ultrasonics Industry Association
Technical Meeting, Columbus.
Plenary Lecturer, 1st International Conference on
Mechanochemistry, Kosice, Slovakia.
Invited Speaker, 3rd Eur. Sonochem. Soc, Portugal.
Invited Speaker, NSF/EPRI Symposium on Advanced
Oxidation Technologies, San Francisco.
Michigan State University, East Lansing
Washington University, St. Louis

DOE Program Review, Washington, D.C.
IUTAM Symposium, Birmingham, U.K.
Duke University
DuPont Imaging and Medical, Glasgow
Orentreich Institute, New York
205th ACS National Meeting, Denver

Argonne National Laboratory
Nazerene-Olivetti University, Kankakee
duPont & Co., Wilmington
Hoechst-Celanese, Corpus Christi
Carleton University, Ottawa

1992

Invited Speaker, Gordon Res. Conf., Organomet. Chem.
Invited Speaker, Symp. on Cluster, Surfaces, & Solids,
204th ACS National Mtg., Washington, D.C.
Invited Speaker, Adv. Catal. Tech. Symp., Catalytica.
Colloquium Speaker, Center for Adv. Study, UIUC.
Invited Speaker, Symp. Reactions in Organized Media,
203rd ACS Natl. Mtg., San Francisco.
Northwestern University.
University of California, Santa Barbara
Princeton University
AAAS National Meeting, Chicago
DOE UIUC Corrosion Center Symposium
3rd Rocky Mountain Conf. Analytical Chem.
American Society of Mechanical Engineers,
Winter Natl. Meeting, Boulder

1991

Invited Speaker, Frontiers of Science Workshop on
Catalysis, Exxon Corporate Research Lab
Plenary Lecturer, 1st Meeting of the European
Sonochemistry Society, Lago Gardo, Italy
Colloquium Speaker, Department of Chemistry,
University of Chicago
Invited Speaker, Ultrasonics Industry Association Mtg.
Invited Speaker, Symp. on Macromolecular Assemblies,
202nd ACS National Meeting, Atlanta.
Colloquium Speaker, Department of Chemistry,
University of Illinois at Urbana-Champaign.
Invited Speaker, Acoustical Soc. Am. Mtg., Baltimore.
Materials Research Society, Fall Meeting
Eastern Illinois University
Materials Research Society National Meeting
Colloquium Lecturer, Dept. Chem., UIUC
American Physical Society National Meeting
DePauw University
BP Chemicals, London
Hoechst Celanese, Providence
Stanford University
University of California, Berkeley
University of Oregon
Lexington ACS Section

1990

Materials Research Society, Boston
NCPA, U. Miss., Oxford, MS.
199th ACS National Meeting, Boston
Union Carbide, Bound Brook
University of Delaware
University of New Mexico
Central New Mexico ACS Section
University of Illinois, Biophysics

1989

Plenary Lecturer, New York Catalysis Society, N.Y.
Academy of Sciences, New York
Pacific Basin Societies Mtg., Honolulu
Beckman Institute for Advanced Science and
Technology, University of Illinois
Invited Speaker and Convener, 4th International
Conf. on Bioinorganic Chemistry, Oxford
Plenary Lecturer, International Symposium on
Photochemistry, Ferrara, Italy
Gas Research Institute, Chicago
University of Maryland, College Park
NSF, Washington, D.C.
External Site Visit, Mat. Res. Lab., UIUC
Storz Instrument Co., St. Louis
University of Maryland
Dow Chemicals, Midland
Los Alamos National Laboratory
Sandia Laboratory, Albuquerque
Dow Chemicals, Freeport
Illinois State University
Case Western Reserve University
North Carolina State University

1988

Plenary Lecturer, 5th Intl. Symp. on Inclusion &
Molecular Recognition, Orange Beach
Porphyrin Symposium, 196th ACS Natl Meeting, L.A.
Plenary Lecturer, Philadelphia Catalysis Club
Tribology Symp., 3rd Chemical Congress of
North America, Toronto
University of New Orleans
Exxon Engineering R. & D., Baton Rouge
Wichita State University
Vulcan Chemicals, Wichita
11th Intl. Symp. on the Reactivity of Solids,
Princeton, New Jersey
Beckman Institute External Review
Committee Meeting
Sun Oil R. & D., Marcus Hook, PA
AMOCO Chemicals, Naperville, IL
Purdue University

1987

Plenary Lecturer, EUCHEM Symposium on Unusual
Methodologies in Organic Synth., France
Invited Speaker, NATO Workshop on Selective
Activation of C-H & C-C Bonds, France
Invited Speaker, NSF Workshop on Organometallic
Chemistry, Asilomar
Molecular Biosystems, San Diego
Mobil R. & D., Paulsboro, NJ
Rensselaer Polytechnic University

State University of New York at Albany
General Electric Corp. Research, Schenectady
194th ACS National Meeting, New Orleans
Eli Lilly Co., Indianapolis
M & T Chemicals, New Jersey
University of Paris V (Rene Descartes)
Biennial Inorganic Chem. Symp., Harvard University
3rd Intl Conf Bioinorganic Chemistry, Netherlands
Institute for Gas Technology, Chicago
University of Pittsburgh
University of Ill., Dept. of Matl. Sciences
Johns Hopkins University
Ultrasonics in Biophysics and Bioeng Symp., Allerton

1986

Sonochemistry Symposium, Royal Society of
Chemistry Annual Congress, Warwick
Plenary Lecturer, 4th International Seminar on
Modern Synthetic Methods, Assoc. of Swiss Chemists
Symp. on New Synthetic Approaches, Oxford Univ.
Symposium on High Energy Processes in
Organometallic Chem., 192nd Natl. ACS
Carnegie-Mellon University
M & T Chemicals, New Jersey
Imperial Chemicals, Runcorn, England
University of Edinburgh
University of Stirling, Scotland
Technical University of Darmstadt
Ciba-Geigy, Basel, Switzerland
Shell Chemicals, Amsterdam
Procter & Gamble, Cincinnati
University of Southampton
University of Liverpool
Cambridge University
University of Bristol
University of Nottingham
191st ACS National Meeting, New York
University of Illinois

1985

190th National ACS Meeting, Chicago
Biennial Inorganic Chemical Symp., Toronto
State-of-the-Art Symposium on Bioinorganic
Chemistry, 189th National ACS Meeting
Excited States of Porphyrins Symp., Little Rock
IEEE National Meeting, San Francisco
Exxon Corporate Research, Annandale
Ultrasonics Intl. 85 Conference, London

1984

University of North Carolina, Chapel Hill
University of South Carolina, Charleston
Exxon Corporate Research, Annandale
Amoco Chemicals, Naperville
Intl. Congress of Pacific Basin Chem. Soc.
N.Y. Catalysis Society, N.Y. Acad. Sciences
23rd ICCS, Vancouver
Southeast Regional ACS Meeting
Henkel Corporation, Minneapolis
University of Minnesota, Minneapolis
Midwest Regional ACS Meeting, Kalamazoo

Chemplex Corporation, Rolling Meadows
187th ACS National Meeting, St. Louis
University of Iowa, Iowa City
Engelhard Chemicals, Summit

1983

University of Illinois at Urbana-Champaign
Northwestern University, Evanston
University of California, Riverside
University of California, Santa Barbara
University of California, Irvine
University of California, Los Angeles
University of Southern California, L. A.
California Institute of Technology, Pasadena
University of California, Davis
Stanford University, Stanford
University of California, Berkeley
University of Oregon, Eugene
University of Wisconsin, Madison
186th ACS Natl. Meeting, Washington, D.C.
Eastman Kodak, Kingsport, Tenn.
Intl. Conference Bioinorg. Chem., Florence
University of Chicago
Celanese Corporate Research, Summit, NJ.
Ohio State University
Princeton University
DuPont Central Research, Wilmington, DE
Massachusetts Institute of Technology
Harvard University
Marquette University
185th ACS National Meeting, Seattle

1982

Shell Development, Westhallow
3rd Intl. Symp. on Homogen. Catal., Milan
Gordon Research Conf., Inorganic Chemistry
Gordon Research Conf., Organometallics
DIC Biennial Symposium, Indiana University
184th ACS National Meeting, Kansas City
University of Illinois, Chicago Circle

1981

Standard Oil of Ohio, Cleveland
28th IUPAC Congress, Vancouver
Ball State University
IEEE Ultrasonics Symposium, Chicago
17th Midwest Regional ACS Meeting
181st ACS National Meeting, Atlanta

1980 - 1977

Gordon Research Conf., Inorganic Chemistry, 1980.
California Institute of Technology, 1979.
Harvard University, 1978.
Bell Laboratories, Murray Hill, 1978.
IBM, Yorktown and San Jose, 1978.
University of California, Berkeley, 1978.
University of California, Los Angeles, 1978.
Stanford University, 1978.
Exxon Corporate Research, Linden, NJ, 1977.
University of Illinois at Urbana-Champaign, 1977.
Pacific Conf. on Chemistry and Spectroscopy, 1977.

Expert Witness and Other Legal Consulting:

2010 –

King & Spalding, LLP (Atlanta, DC)
Plaintiff Expert Witness.

2004 – 2005

Hunton & Williams, LLP (Richmond);
Plaintiff Expert Witness.

1998 – 1999

Mentor v. MDA, Lysonix, Mysonix;
U.S. District Court (Central District of California);
Court Appointed (Rule 706) Expert Witness.

1999

Mentor v. MDA, Lysonix, Mysonix;
Quinn, Emmanuel, Urquhart & Sullivan, LLP (LA, NY)
Plaintiff Expert Witness.

1996 – 1997

Alcon Laboratories v. Storz Instruments Co.;
Finnegan, Henderson, Farabow, Garrett (DC);
Defense Expert Witness.

1990 – 1991

Keller v. Feinstein; Virginia State Courts;
Thompson & McMullan (Richmond);
Plaintiff Expert Witness.

Industrial Consulting Positions with Confidentiality Agreements:

Current and Ongoing

ORC Guideline (Teltech), Princeton; 1985 – .
iSense, Inc., Palo Alto.
RegEnergysys, London.

2009

iSense, Inc., Palo Alto.
Lumigen, Beckman Coulter, Southfield, MI.

2008

iSense, Inc., Palo Alto.
Traditional Industries Intellectual Property Ltd.,
Israel.

2007

Merck Pharmaceuticals, Rahway, NJ.

2006

ChemSensing, Inc., Champaign.

2005

Procter & Gamble, U.K.
ChemSensing, Inc., Champaign.

2004

Colgate Palmolive.
ChemSensing, Inc., Champaign.

2003

ChemSensing, Inc., Champaign.
Dispersed Systems, Oceanside, CA.

2002

ChemSensing, Inc., Champaign.
Dispersed Systems, Oceanside, CA.
PDVSA, Caracas, Venezuela.

2001

ChemSensing, Inc., Champaign.
PG Research Foundation.
UOP Corp. Research, Chicago.
Aramco (Saudi Arabian Oil Co.), Dharan.
Eveready Corp., Cincinnati.

2000

PG Research Foundation.
Exxon ERDL, Baton Rouge.
Vitroseal, Inc., Evanston, IL.

1999

PG Research Foundation.
VivoRx Pharmaceuticals, Santa Monica.; 1991 – 99.
Exxon ERDL, Baton Rouge.
CQ Inc., Homer City, PA.

1998

Exxon ERDL, Baton Rouge.
Abbot Pharmaceuticals, North Chicago.
MacroSonix Corp., Richmond, VA.

1997

Ney Ultrasonics, Bloomfield, CT.
U.S. Army Construction Eng. Res. Lab.
Storz Instrument Co., St. Louis.

1996

National Starch and Chemical Corp., Plainfield, NJ.
Exxon Corporate Research, Annandale, NJ.
Ney Ultrasonics, Bloomfield, CT.
U.S. Army Construction Eng. Res. Lab.

1995

Kimberly-Clark Corp., Neenah, WI.
3M Corporate Research, Minneapolis.
Ney Ultrasonics, Bloomfield, CT.

1994

Exxon ERDL, Baton Rouge.
Dow-Elanco, Indianapolis.
Ney Ultrasonics, Bloomfield, CT.

1993

Foster-Wheeler Corporation, Livingston, NJ.
Exxon ERDL, Baton Rouge.
Orentreich Institute, Cold Spring On Hudson, NY.
duPont Imaging, Glasgow.
Gas Research Institute / Alfred Univ.; 1992-93.
Catalytica Associates, Mountain View, CA; '91-93.

1992

Exxon ERDL, Baton Rouge.
Dean Technology, Hanover, Connecticut; 1990-92.
3M Corporate Research, Minneapolis.

1991

Exxon Corporate Research, Annandale, NJ.
Hoechst-Celanese, Providence.
Chem Systems, Houston.
duPont-Merck Pharmaceuticals, Bellirica, NY.
BP Chemicals, London.

1990

Hoechst-Celanese, Corpus Christi.
Exxon Chemical Co., Linden, NJ.
Union Carbide Corporation, Bound Brook, NJ.
duPont Chemicals Corporation, Wilmington, DE.
Molecular Biosystems, Inc., San Diego; 1987-90.

1989

Dow Chemicals, Midland and Freeport.
Institute for Gas Technology, Chicago; 1987-89.

1988

Vulcan Chemicals, Wichita.
Exxon ERDL, Baton Rouge.
Sun Oil Research & Dev. Lab., Marcus Hook, NJ.
AMOCO Chemicals, Naperville, Illinois; 1987-88.

1976 – 1987

Eli Lilly Co., Indianapolis, 1987.
Mobil Research & Development, Paulsboro, 1987.
M & T Chemicals, New Jersey; 1986-87.
Ciba-Geigy Ltd., Basel, Switzerland; 1986.
Imperial Chemicals Industry, Runcorn, UK; 1986.
Shell Chemicals, Amsterdam; 1986.
Exxon Corporate Research, Annandale, NJ; 1984-86.
Digital Engineering, Thunder Bay, Canada; 1982.
Harper and Row, Hugheey's *Inorg. Chem.*; 1981-82.
Catalytica Associates, Mountain View, CA; 1978

Other Recent Professional Activities:

- 2009 – 10 Co-organizer, Sonochemistry Symposium, Pacifichem 2010 International Congress, Honolulu.
2006 – Scientific Advisory Board, Japanese Sonochemical Society.
1996 – Board of Directors, European Society of Sonochemistry.
1990 – Hertz Foundation Graduate Fellowship Interviewer.
2005 Symposium Organizer, Spring National Meeting, Materials Research Society.
2004 – 05 Technical Committee, 2005 Intl. Symp. On Olfaction and Electronic Noses (ISOEN2005), Barcelona.
2004 – 05 Co-organizer, Sonochemistry Symposium, Pacifichem 2005 International Congress, Honolulu.
2003 NASA proposal evaluation panel, Scientific Projects in Microgravity.
2003 Symposium Organizer, Ultrasonics Industry Association Annual Technical Symposium.
2000 Organizer, Sonochemistry Symposium, Pacifichem 2000 International Congress, Honolulu.
1997 – 00 Chairman, MRS Medal Awards Subcommittee, Materials Research Society.
1996 – 00 Awards Committee, Materials Research Society.
1998 Sonochemistry & Sonoluminescence Symposium Co-organizer, Joint ASA/EAA Intl. Meeting, Berlin.
1998 Sonochemistry Symposium Co-organizer, Acoustic Society of America Meeting, Seattle.
1997 NSF Career Award Selection Committee.
1996 – 97 Co-Organizer, NATO Advanced Study Institute on Sonochemistry and Sonoluminescence.
1993 – 98 North American Board Member, International Mechanochemistry Association, IUPAC.
1993 – 95 Organizer, Chemical Effects of Ultrasound Symp., Pacifichem '95 Intl. Congress, Honolulu.
1989 – 93 Organizer, Eli Lilly Lectureship on Molecular Recognition; Beckman Institute.
1991 Co-Organizer, Cavitation Symposium, Natl. Meeting, Acoustical Society of America, Baltimore.
1989 Organizer, Molecular Recognition Symposium, 4th Intl. Conf. on Bioinorganic Chemistry.
1989 Co-Organizer, Dow Molecular Recognition Symposium, Beckman Institute.
1988 – 89 Organizer, Sonochemistry Symposium, Pacifichem '89 International Congress, Honolulu.
1987 – 89 Chairman, ACS Local Section, Champaign-Urbana.

Personal Data:

b., Chicago, September 16, 1952. Son: Benjamin, b. 1992.

Teaching Responsibilities:

Chem 101 General Chemistry; 1980.
Chem 202 Advanced Placement General Chemistry; 2004.
Chem 109 Advanced Placement General Chemistry Laboratory, 1999.
Chem 115 Chemistry of Everyday Phenomena; 1990, 1991, 1992, 1993, 1997, 1998.
Chem 312 Inorganic Chemistry; 1982, 1991, 1994, 1995, 1999, 2000, 2001, 2009, 2010, 2011, 2012.
Chem 319 Instrumental Characterization of Chemical Systems Laboratory, 2000.
Chem 383 Dynamics, Structure and Physical Methods Laboratory; 1982, 1983, 1984, 1994.
Chem 405 Inorganic Graduate Seminar; 1978, 1979, 1980, 1985, 1996, 1997, 1998, 1999.
Chem 406 Physical Methods in Inorganic Chemistry; 1978, 1980, 1982, 1984.
Chem 407 Special Topics in Inorganic Chemistry: Bioinorganic Chem.; 1979, 1982, 1984, 1987, 1989, 1993, 2003.
Chem 407 Materials Synthesis; 1996.
Chem 584 Materials Chemistry; 2006, 2007, 2008.
Chem 588 Physical Methods in Materials Chemistry; 2004, 2005, 2006, 2007, 2008, 2009.

Committee and Administrative Duties:

University of Illinois, Intellectual Property Policy Committee, 2003 – 2008.
University of Illinois, Advisory Board, Office of Technology Management, 2006 – 2008.
University of Illinois at Urbana-Champaign, Search Committee for MacArthur Chaired Professorships, 2003.
University of Illinois at Urbana-Champaign, Search Committee for Director of Materials Research Laboratory, 1999.
University of Illinois at Urbana-Champaign, Center for Microscopy and Imaging Advisory Committee, 1997 – 2000.
University of Illinois at Urbana-Champaign, Chair, Evaluation Committee of Director of the Environmental Council, 1998-99
University of Illinois at Urbana-Champaign Task Force on the Environment, 1993.
University of Illinois at Urbana-Champaign, Senator (elected post), 1986 – 1987.

College of Liberal Arts and Sciences, School of Chemical Sciences Director Search, 2012.
College of Liberal Arts and Sciences, Chair, Administrative Evaluation of Head of Microbiology, 2010.
College of Liberal Arts and Sciences, Executive Committee, 2007 – 2009.
College of Liberal Arts and Sciences, Search Committee for Director of the School of Chemical Sciences, 1999.
College of Liberal Arts and Sciences, Chair, Administrative Evaluation of Director of School of Life Sciences, 1993–94.
College of Liberal Arts and Sciences, Council on General Education (elected post), 1982 – 84.
College of Liberal Arts and Science, Ad Hoc B.A./B.S. Curriculum Committee, 1985 – 86.

College of Engineering, Materials Research Laboratory Executive Committee, 2007 – 2010.
College of Engineering, Materials Research Laboratory Director Search Committee, 1998–1999

Beckman Institute for Advanced Science and Technology, Program Advisory Committee, 1989 – 91.
Beckman Institute for Advanced Science and Technology, Molecular Recognition Group Leader, 1988 – 91.

School of Chemical Sciences, Acting Director, 2009.
School of Chemical Sciences, Executive Committee, 2006 – 09.
School of Chemical Sciences, New Building Committee, 1993 – 95.
School of Chemical Sciences, Service Facilities, 1988 – 89; 2001 – 05.
School of Chemical Sciences, Supplies and Stockrooms, 1983 – 86; chair, 1986 – 92.
School of Chemical Sciences, Teaching Evaluation and Awards, 1982 – 87.
School of Chemical Sciences, Safety Committee, 1979 – 80.

Department of Chemistry, Budget and Operations, Inorganic or Materials Chemistry, 1989-92, 1996-1997, 2005-07, 2008-09.
Department of Chemistry, Awards Committee, 2004 – 12.
Department of Chemistry, Graduate Student Recruitment and Appointments, 1978–81, 1996–99, 2004–12; chair, 2000–01, '05– 09.
Department of Chemistry, Inorganic/Materials Seminar Chairman, 1978 – 81, 1996 – 99, 2004 – 08.
Department of Chemistry, General Chemistry, 1981 – 82; 2006 – 07.
Department of Chemistry, Staff Committee, 1996 – 05.
Department of Chemistry, Graduate Student Advising, 1980 – 85, 2003 – 05.
Department of Chemistry, Executive Advisory Committee, 1994 – 95, 2002 – 04.
Department of Chemistry, Building and Space Allocation, 1981 – 82, 1993.
Department of Chemistry, Budget and Operations, Core Laboratories, 1984 – 88.
Department of Chemistry, Courses and Curriculum, 1987 – 90.
Department of Chemistry, Department Colloquium Chair, 1987 – 89.
Department of Chemistry, Department Reorganization Committee, 1997.
Department of Chemistry, Graduate Student Fellowships, 1986 – 87.

Publications List:

(chronological by publication type)

Books:

1. Suslick, K. S., ed. *High Energy Processes in Organometallic Chemistry*; Am. Chem. Soc.: Washington, DC, 1987; Symposium Series #333.
2. Suslick, K. S., ed. *Ultrasound: Its Chemical, Physical, and Biological Effects*; VCH Publishers: New York, 1988.
3. Suslick, K. S., ed. *Comprehensive Supramolecular Chemistry, vol. 5, Bioinorganic Systems*; Elsevier Publishers: Oxford, 1996.
4. Crum, L. A.; Mason, T. J.; Reisse, J.; Suslick, K. S., eds. *Sonochemistry and Sonoluminescence*, Kluwer Publishers: Dordrecht, Netherlands, 1999; NATO ASI Series C, v. 524.

Major Invited Reviews:

5. Collman, J. P.; Halbert, T. R.; Suslick, K. S. "O₂ Binding by Metalloporphyrins" in *Metal Ion Activation of Dioxygen*; Spiro, T. G., ed.; Prentice-Hall: New York, 1980; pp. 1-72.
6. Suslick, K. S. "Organometallic Sonochemistry" *Adv. Organomet. Chem.* **1986**, 25, 73-119.
7. Suslick, K. S. "Synthetic Applications of Ultrasound" *Modern Synthetic Methods* **1986**, 4, 1-60.
8. Suslick, K. S. "Homogeneous Sonochemistry" in *Ultrasound: Its Chemical, Physical and Biological Effects*; Suslick, K. S., ed.; VCH Publishers: New York, 1988; pp. 123-164.
9. Suslick, K. S. "Shape Selective Hydrocarbon Oxidation" in *Activation and Functionalization of Alkanes*; Hill, C. L., ed.; Wiley & Sons: New York, 1989; pp. 219-241.
10. Suslick, K. S.; Cook, B. R. "Shape Selective Oxidation as a Mechanistic Probe" in *Inclusion Phenomena and Molecular Recognition*; Atwood, J. L., ed.; Plenum Press: London, 1990; pp. 209-215.
11. Suslick, K. S.; Doktycz, S. J. "The Effects of Ultrasound on Solids" in *Advances in Sonochemistry*; Mason, T. J., Ed.; JAI Press: New York, 1990; vol.1, pp 197-230.
12. Suslick, K. S. "Sonochemistry" *Science* **1990**, 247, 1439-1445 (with cover).
13. Suslick, K. S.; Grinstaff, M. W. "Proteinaceous Microspheres" *Macromolecular Assemblies*; Stroeve, P.; Balazs, A. C., eds.; Am. Chem. Soc.: Washington, D.C., 1992; pp. 218-226.
14. Suslick, K. S. "Ultrasound: Applications to Materials Chemistry" in *Encyclopedia of Materials Science and Engineering*; Cahn, R. W., ed.; Pergamon Press: Oxford, 1993; 3rd Suppl., pp. 2093-2098.
15. Chen, C.-T.; Suslick, K. S. "One-Dimensional Coordination Polymers" *Coord. Chem. Rev.*, **1993**, 128, 293-322.
16. Suslick, K. S. "Sonochemistry of Transition Metal Compounds" in *Encyclopedia of Inorganic Chemistry*; King, R. B., ed.; J. Wiley & Sons: New York, 1994; vol. 7, pp. 3890-3905.
17. Suslick, K. S. "Applications of Ultrasound to Heterogeneous Catalysis" *Adv. in Catalyst Preparation*; Catalytica: S.F., 1995.
18. Suslick, K. S. "Applications of Ultrasound to Materials Chemistry" *MRS Bulletin* **1995**, 20, 29-34.
19. Suslick, K. S.; Van Deusen-Jeffries, S. "Shape Selective Biomimetic Oxidation Catalysis" *Comprehensive Supramolecular Chemistry*, vol. 5; Lehn, J. M., ed. Elsevier Publishers: Oxford, 1996; pp. 141-170.

Major Invited Reviews (continued):

20. Suslick, K. S. "Sonocatalysis" in *Handbook of Heterogeneous Catalysis*; Ertl, G.; Knozinger, H.; Weitkamp, J.; eds.; Wiley-VCH: Weinheim, 1997; vol. 3, ch. 8.6, pp. 1350-1357.
21. Suslick, K. S.; Matula, T. J. "Acoustic Cavitation, Sonochemistry, and Sonoluminescence" in *Wiley Encyclopedia of Electrical & Electronics Engineering*; Webster, J.G., ed.; Wiley-Interscience: New York, 1999, vol. 22, pp. 646-657.
22. Suslick, K. S.; Crum, L. A. "Sonochemistry and Sonoluminescence" in *Handbook of Acoustics*; Crocker, M. J., ed.; Wiley-Interscience: New York, 1998; pp. 243-253.
23. Suslick, K. S.; Didenko, Y.; Fang, M. M.; Hyeon, T.; Kolbeck, K. J.; McNamara III, W. B.; Mdeleleni, M. M.; Wong, M. "Acoustic Cavitation and Its Chemical Consequences" *Phil. Trans. Roy. Soc. London A* **1999**, 357, 335-353.
24. Suslick, K. S.; Price, G. "Applications of Ultrasound to Materials Chemistry" *Annu. Rev. Matl. Sci.*, **1999**, 29, 295-326.
25. Chou, J.-H.; Kosal, M. E.; Nalwa, H.S.; Rakow, N.A.; Suslick, K. S. "Applications of Porphyrins and Metalloporphyrins to Materials Chemistry" in *The Porphyrin Handbook*, Kadish, K.; Smith, K.; Guilard, R., eds.; Academic Press: New York, 2000; vol. 6, ch. 41, pp. 43-131.
26. Suslick, K. S. "Shape Selective Oxidation by Metalloporphyrins" in *The Porphyrin Handbook*, Kadish, K.; Smith, K.; Guilard, R., ed.; Academic Press: New York, 2000; vol. 4, ch. 28, pp. 41-63.
27. Suslick, K. S. "Sonochemistry" in *Comprehensive Coordination Chemistry 2*; Elsevier Science: N.Y., 2003, 731-739.
28. Suslick, K.S.; Rakow, N.A.; Sen, A. "Colorimetric sensor arrays for molecular recognition" *Tetrahedron*, **2004**, 60, 11133-38.
29. Suslick, K. S.; Bhyrappa, P.; Chou, J. H.; Kosal, M. E.; Nakagaki, S.; Smithenry, D. W.; Wilson, S. R. "Microporous Porphyrin Solids" *Acc. Chem. Res.* **2005**, 38, 283 - 291.
30. Suh, W. H.; Suslick, K. S.; Suh, Y. H. "Therapeutic Agents for Alzheimer's Disease," *Curr. Med. Chem. - Cent. Nerv. Sys. Agents* **2005**, 5, 259-270.
31. Boppart, S. A.; Suslick, K. S. "Microsphere Contrast Agents for OCT" *Optical Coherence Tomography in Cardiovascular Research*, Regar, E.; van Leeuwen, T. G.; Serruys, P., eds.; CRC Press: 2007, ch. 29, 267-281.
32. Suslick, K. S.; Bailey, D. P.; Ingison, C. K.; Janzen, M.; Kosal, M. A.; McNamara III, W. B.; Rakow, N. A.; Sen, A.; Weaver, J. J.; Wilson, J. B.; Zhang, C.; Nakagaki, S. "Seeing Smells: Development Of An Optoelectronic Nose" *Quimica Nova* **2007**, 30, 677-681.
33. Suslick, K. S.; Skrabalak, S. E. "Sonocatalysis" In *Handbook of Heterogeneous Catalysis, vol. 4*; Ertl, G.; Knözinger, H.; Schüth, F.; Weitkamp, J., Eds.; Wiley-VCH: Weinheim, 2008, pp. 2006-2017.
34. Suslick, K. S.; Flannigan, D. J. "Inside a Collapsing Bubble: Sonoluminescence and the Conditions During Cavitation" *Annu. Rev. Phys. Chem.* **2008**, 59, 659-683.
35. Suh, W. H.; Suslick, K. S.; Stucky, G. D.; Suh, Y.-H. "Nanotechnology, Nanotoxicology, and Neuroscience" *Prog. Neurobiol.* **2009**, 87, 133-170 (with cover).
36. Musto, C. J.; Suslick, K. S. "Differential Sensing of Sugars by Colorimetric Arrays" *Curr. Op. Chem. Biol.* **2010**, 14, 758-766.
37. Bang, J. H.; Suslick, K. S. "Applications of Ultrasound to the Synthesis of Nanostructured Materials" *Advanced Materials* **2010**, 22, 1039-1059.
38. Suslick, K. S.; Eddingsaas, N. C.; Flannigan, D. J.; Hopkins, S. D.; Xu, H. "Extreme conditions during multibubble cavitation: Sonoluminescence as a spectroscopic probe" *Ultrasonics Sonochem.* **2011**, 18, 842-846.
39. Kemling, J. W.; Qavi, A. J.; Bailey, R. C.; Suslick, K. S. "Nanostructured Substrates for Optical Sensing" *J. Phys. Chem. Lett.* **2011**, 2934-2944. Invited review with cover.

Popularizations:

40. Suslick, K. S.; Reinert, T. J. "Synthetic Analogs of O₂ Binding Heme Proteins" *J. Chem. Ed.* "State of the Art: Bioinorganic Chemistry" issue, **1985**, 62, 974-982.
41. Suslick, K. S. "Sonochemistry and Sonocatalysis" in *1988 McGraw-Hill Yearbook of Science and Technology*; McGraw-Hill: New York, 1987, pp 430-433.
42. Suslick, K. S. "The Chemical Effects of Ultrasound" *Scientific American* **1989** (2) 260, 80-86.
43. Suslick, K. S. "Sounding Out New Chemistry" *New Scientist* **1990**, 1702, 50-53.
44. Suslick, K. S. "Cavitation" and "Sonochemistry" in *McGraw-Hill Encyclopedia of Science and Technology*; McGraw-Hill: New York; 7th Ed., 1992, pp. 320, pp. 683-685; 8th Ed., 1997, pp. 744-747.
45. Suslick, K. S. "Sonochemistry" in *McGraw-Hill Encyclopedia of Chemistry*; 2nd Ed. McGraw-Hill: New York, 1992, pp. 1021-1023.
46. Suslick, K. S. "The Chemistry of Ultrasound" in *Yearbook of Science & the Future 1994*; Encyclopaedia Britannica: Chicago, 1994; pp 138-155.
47. Crum, L. A.; Suslick, K. S. "Bubbles Hotter than the Sun" *New Scientist* **1995**, 146 (#1975), 36-40.
48. Suslick, K. S. "Set for a 'Chain Reaction'" *Inside Illinois* **1997**, 16 (#17), 5.
49. Suslick, K. S. "Sonoluminescence, Camera, Action!" *Engineering & Science* (California Institute of Technology) **1997** 40 (#2), 4-5.
50. Suslick, K. S.; Crum, L. A. "Sonochemistry and Sonoluminescence" in *Encyclopedia of Acoustics*; Crocker, M. J., ed.; Wiley-Interscience: New York, 1997; vol. 1, ch. 26, pp. 271-282.
51. Suslick, K. S. "Sonochemistry" in *Kirk-Othmer Encyclopedia of Chemical Technology*; 4th Ed. J. Wiley & Sons: New York, 1998, vol. 26, 517-541.
52. Suslick, K. S. "Sonochemistry" in *1999 McGraw-Hill Yearbook of Science and Technology*; McGraw-Hill: New York, 1998, pp. 342-344.
53. Suslick, K. S. "Sonochemistry" in *Kirk-Othmer Concise Encyclopedia of Chemical Technology*; 4th Ed. J. Wiley & Sons: New York, 1999, pp. 1867-1868.
54. Suslick, K. S. "Sonochemistry" in *McGraw-Hill Concise Encyclopedia of Science and Technology*; 9th Ed. McGraw-Hill: New York; 1999, 342-344.
55. Suslick, K. S. "UI Chemist Meets the Federal District Court" *Inside Illinois* **1999**, 18 (#19), 7.
56. Suslick, K. S. "Sonochemistry and Sonoluminescence" in *Encyclopedia of Physical Science and Technology*, 3rd ed. Academic Press: San Diego, 2001, vol. 17, pp. 363-376.
57. Suslick, K. S. "An Optoelectronic Nose: 'Seeing' Smells by Means of Colorimetric Sensor Arrays" *MRS Bulletin* **2004**, 29, 720-725.
58. Suslick, K. S. "Sonochemistry" in *McGraw-Hill Encyclopedia of Science and Technology*; McGraw-Hill: New York, 2012, pp. xxx-xxx.

Patents and Patent Applications:

59. Suslick, K. S. "Isotope Separation by Photochromatography" *U.S. Patent 4,010,100*; March 1, 1977.
60. Desai, N. P.; Soon-Shiong, P.; Sandford, P. A.; Grinstaff, M. W.; Suslick, K. S.
"Magnetic Resonance Imaging with Fluorocarbons Encapsulated in a Cross-linked Polymeric Shell"
U. S. Patent 5,362,478; Nov. 8, 1994.
61. Desai, N. P.; Soon-Shiong, P.; Sandford, P. A.; Grinstaff, M. W.; Suslick, K. S.;
"Methods for *In Vivo* Delivery of Substantially Water Insoluble Pharmacologically
Active Agents and Compositions Useful Therefor" *U. S. Patent 5,439,686*; Aug. 8, 1995.
62. Grinstaff, M. W.; Soon-Shiong, P.; Wong, M.; Sandford, P. A.; Suslick, K. S.; Desai, N. P.
"Composition Useful for *In Vivo* Delivery of Biologics and Methods Employing Same"
U. S. Patent 5,498,421; Mar. 12, 1996.
63. Grinstaff, M. W.; Desai, N. P.; Suslick, K. S.; Soon-Shiong, P.; Sandford, P. A.; Merideth, N. R.
"Method for the Preparation of Fluorocarbon-Containing Polymeric Shells for Medical Imaging"
U. S. Patent 5,505,932; Apr. 9, 1996.
64. Grinstaff, M. W.; Desai, N. P.; Suslick, K. S.; Soon-Shiong, P.; Sandford, P. A.; Merideth, N. R.
"Non-Fluorinated Polymeric Shells for Medical Imaging" *U. S. Patent 5,508,021*; Apr. 16, 1996.
65. Grinstaff, M. W.; Desai, N. P.; Suslick, K. S.; Soon-Shiong, P.; Sandford, P. A.; Merideth, N. R.
"Polymeric Shells for Medical Imaging Prepared from Synthetic Polymers, and Methods for the Use Thereof"
U. S. Patent 5,512,268; Apr. 30, 1996.
66. Desai, N. P.; Soon-Shiong, P.; Sandford, P. A.; Grinstaff, M. W.; Suslick, K. S.;
"Methods for *In Vivo* Delivery of Substantially Water Insoluble Pharmacologically
Active Agents and Compositions for the Use Thereof" *U. S. Patent 5,560,933*; Oct. 1, 1996.
67. Grinstaff, M. W.; Soon-Shiong, P.; Wong, M.; Sandford, P. A.; Suslick, K. S.; Desai, N. P.
"Methods for the Preparation of Blood Substitutes for *In Vivo* Delivery"
U. S. Patent 5,635,207; June 3, 1997.
68. Grinstaff, M. W.; Soon-Shiong, P.; Wong, M.; Sandford, P. A.; Suslick, K. S.; Desai, N. P.
"Methods For The Preparation Of Nucleic Acids For *In Vivo* Delivery"
U. S. Patent 5,639,473; June 17, 1997.
69. Grinstaff, M. W.; Soon-Shiong, P.; Wong, M.; Sandford, P. A.; Suslick, K. S.; Desai, N. P.
"Methods For *In Vivo* Delivery Of Nutraceuticals And Compositions Useful Therefor"
U. S. Patent 5,650,156; July 22, 1997.
70. Grinstaff, M. W.; Soon-Shiong, P.; Wong, M.; Sandford, P. A.; Suslick, K. S.; Desai, N. P.
"Methods for the Preparation of Pharmaceutically Active Agents for *In Vivo* Delivery"
U. S. Patent 5,665,382; Sept. 9, 1997.
71. Grinstaff, M. W.; Soon-Shiong, P.; Wong, M.; Sandford, P. A.; Suslick, K. S.; Desai, N. P.
"Methods for the Preparation of Immunostimulating Agents for *In Vivo* Delivery"
U. S. Patent 5,665,383; Sept. 9, 1997.
72. Suslick, K. S.; Rakow, N. A. "Colorimetric Artificial Nose Having an Array of Dyes and Method for Artificial Olfaction"
U.S. Patent 6,368,558; April 9, 2002.
73. Suslick, K. S.; Rakow, N. A.; Sen, A.
"Colorimetric Artificial Nose Having an Array of Dyes and Method for Artificial Olfaction: Shape Selective Sensors"
U.S. Patent 6,495,102 B1; Dec. 17, 2002.

-
74. Suslick, K. S.; Rakow, N. A.; Sen, A.; McNamara, W. B. III; Kosal, Margaret E.
"Colorimetric artificial nose having an array of dyes and method for artificial olfaction"
U.S. Patent Appl. 2003/0143112; July 21, 2003.
 75. Suslick, K. S.; Rakow, N. A.; Sen, A. "
Siloxo porphyrins and metal complexes thereof"
U.S. Patent Appl. 2003/0129085; July 10, 2003.
 76. Suslick, K. S.
"Colorimetric artificial nose having an array of dyes and method for artificial olfaction"
U.S. Patent Appl. 2003/0166298; Sept. 4, 2003.
 77. Suslick, K. S.; Hulkower, K. I.; Sen, A.; Sroka, M. A.; McNamara, W. B. III
"Method and apparatus for detecting ammonia from exhaled breath"
U.S. Patent Appl. 2005/0171449; Aug. 4, 2005.
 78. Didenko, Y.; Suslick, K. S.
"Controlled Chemical Aerosol Flow Synthesis of Nanometer-Sized Particles and Other Nanometer-Sized Products"
U.S. Patent 7,160,489; Jan. 9, 2007.
 79. Boppart, S. A.; Marks, D. L.; Suslick, K. S.; Toublan, F. J.-J.
"Optical Contrast Agents For Optically Modifying Incident Radiation"
U.S. Patent 7,198,777; April 3, 2007
 80. Suslick, K. S.; Toublan, F. J.-J.; Boppart, S. A.; Marks, D. L.
"Surface Modified Protein Microparticles"
U.S. Patent 7,217,410; May 15, 2007.
 81. Suslick, K. S.; Toublan, F. J.-J.; Boppart, S. A.; Marks, D. L.
"Surface Modified Protein Microparticles"
U.S. Patent Appl. 2007/0184119; August 9, 2007.
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