

## Frankie Kay Wood-Black

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### SUMMARY OF QUALIFICATIONS

- Ph.D. in Physics (1989), MBA (2002), Registered Environmental Manager, Principal of Sophic Pursuits, Inc. Environmental and Science Education consulting. (Also, Lecturer at Northern Oklahoma College)
- Director, Process Technology, Northern Oklahoma College
- Twenty-five years in the petroleum and chemical industry with work experience in technical management; laboratory operations; environmental science and compliance; finance; and professional development. Primary focus has been in refining and downstream operations.
- Focus on petroleum refining, oil and gas and chemical plant environmental compliance with air regulations. Additional focus has been sustainability, safety and crisis management.
- Work with the American Chemical Society in numerous areas including Leadership Development Programs. An instructor for Innovation and Communications courses for this effort.
- Environmental compliance experience (i.e. remediation efforts) focused on issues related to Site Management for Non-Operating Sites and Refinery Operations.
- Additional environmental regulatory experience at operating facilities with the Clean Air Act, Toxic Substance Control Act, Water, Community Right-to-Know Regulations and Waste Regulations as well as emergency planning functions.
- Heavily involved with the American Chemical Society in activities associated with Chemical Health and Safety, Research Initiatives, Public Outreach associated with the Chemical Industry and Career Development.

### SUMMARY OF SKILLS

*Environmental Regulatory Compliance* (From a Site/Project Manager, Refinery and Research and Development perspective):

Air Regulations: Clean Air Act, Air Permitting, Leak Detection and Repair, Emissions Inventory Reporting, Risk Management Plans, and Ozone Depleting Substances.

Community Right-to-Know: Toxic Release Inventory, and Chemical Inventory (Reporting and Management)

Other Regulatory Experience: Toxic Substance Control Act, Product Stewardship/Pollution Prevention, Oil Pollution Prevention Act, Accidental Release Prevention and Countermeasure Plans (SPCC)

*Finance*: Responsible for budgeting, financial reporting and planning for the Downstream Technology organization.

*Intellectual Property Marketing* (Technology Services Marketing Manager): Responsible for the in-sourcing of research and development to the Phillips Petroleum Research Center. Project has involved the development of a business plan and competitive analysis of potential competition.

*Supervisory Skills* (Finance Team Lead and Quality Assurance Team Leader): Technical management in a Team Organization of a Quality Control Laboratory in a Union environment. Mentoring: serve as a career consultant and mentor to professionals and students through the American Chemical Society.

*Resource Identification*: Contributing Author & Member of the Board of Editors for Chemical Health & Safety

## PROFESSIONAL BACKGROUND

### EDUCATION

#### Degrees:

Ph.D.	Physics (May 1989) Oklahoma State University, Stillwater, OK
MBA	(Dec. 2002) Regis University, Denver, CO
B. S.	Physics (May 1984) Minor - Chemistry - University of Central Oklahoma, Edmond, OK

#### Continuing Education:

ESET Cybersecurity Training 2017  
ISA Workshop Presenter "Implementation and Maintenance of LDAR Programs for Oil and Gas Sites" 2012 -2013  
Presentations via Webinar, 2011 – Part of the American Chemical Society Leadership Development Program  
Hazardous Waste Operations Training (continuing and annual refresher training) (Through 2013)  
Leadership and Management Training and Train-the-Trainer (Innovation and Communication Strategies) (2005-Present)  
Leadership Training (topics included negotiating, general finance, and business ethics) (2000)  
Gallup Leadership Training (1999)

**Other Accreditations:** National Registry of Environmental Professionals, Registered Environmental Manager (5807)

**Affiliations:** American Chemical Society, American Physical Society, Sigma Xi

**Prior Affiliations:** American Institute of Chemical Engineers, Air Waste Management Association, ASTM

#### Ph.D. DISSERTATION:

*Interactions of Colloidal Particles in the Presence of a Parallel Applied Field*, Department of Physics, Oklahoma State University, Stillwater, May 1989.

#### B.S. DISSERTATION:

*Intermediate Cathodic Processes in Deuterium Versus Hydrogen Evolution from Corresponding Chlorine Solutions*, Central State University, Department of Physics, Edmond, OK, 1984.

### HONORS AND ACHIEVEMENTS

Helen M. Free Award for Public Outreach – American Chemical Society (2019)  
Member of Nominations and Elections – American Chemical Society (elected Committee) (2019-2021)  
Member of the Committee on Science – American Chemical Society (2018)  
NISOD Excellence Award (2017)  
Past Chair – Industrial and Engineering Chemistry Division of the American Chemical Society (2017)  
Oklahoma Chemist Award (2016) – Citation – For Outstanding Contributions in the Oil and Gas Industry and in Chemical Education from the Elementary to College Level.  
Chair – Industrial and Engineering Chemistry Division of the American Chemical Society (2016)  
Member of the Committee on Chemical Abstracts – American Chemical Society (2016-2017)  
American Chemical Society Fellow (2015)  
Chair-Elect – Industrial and Engineering Chemistry Division of the American Chemical Society (2015)  
Counselor for the Division of Chemical Health and Safety (2015-2018)  
American Chemical Society Expert (2014-Current)  
Associate-Member of the Committee on Chemical Abstracts – American Chemical Society (2014-2015)  
Tillmanns-Solnick Award, Division of Chemical Health and Safety (2011 and 2007)  
University of Central Oklahoma, Alumni Association, Distinguished Former Student Award (September 2005)  
American Chemical Society Tour Speaker, 2004-2006  
Board Member of the OK Mozart Festival (recording Secretary 2004-2005), 2004-2006  
Board Member of the Cimarron Broadband Project (recording Secretary 2004-2005), 2004-2006  
Board Member of the Ponca City Summit (Secretary/Treasurer), 2004  
Committee Associate, Budget and Finance, American Chemical Society, 2004-2006  
Chair of the North Central Oklahoma Section of the American Chemical Society, 2004-2005

## HONORS AND ACHIEVEMENTS (Continued)

Chair-Elect of the North Central Oklahoma Section of the American Chemical Society, 2003  
Appointed Chemical Sciences Roundtable, Feb. 2002 – Dec. 2004, Jan. 2005 – Dec. 2007  
Member PROGRESS Implementation Task Force, American Chemical Society, 2002-2005  
Chair of the Joint Board-Presidential Task Force of the American Chemical Society – Women in the Chemical Workplace 2000-2001  
Advisory Committee Member for the National Historic Chemical Landmarks Program (1996-2005)  
Member of the National ACS - Women Chemists Committee (2000-2002) Program Chair  
Past-Chair Division of Chemical Health and Safety, American Chemical Society 2002  
Chair Division of Chemical Health and Safety, American Chemical Society 2001  
Chair-Elect Division of Chemical Health and Safety, American Chemical Society 2000  
Chair of the Women Chemist Committee, American Chemical Society, 1998-2000  
Chair-Elect of the Salt Lake Section of the American Chemical Society, 1998  
Member of the Solid and Hazardous Waste State Board (Utah) 1997-1998  
Charter Member of the Air & Waste Management Assoc. Great Basin Chapter Executive Board (1997-98)  
Certificate of Excellence (Individual) "Clear the Air" Awards (1996)  
Chair of the National ACS National Chemistry Week Task Force (1996-97)  
Chair (1997) Salt Lake City Section of the American Chemical Society  
Advisory Committee for the Dept. of Physics, Okla. State Univ. (1996-97)  
Altern. Councilor for the Div. of Chemical Health and Safety of the American Chemical Soc. (1996-98, 2005-2007)  
Membership Chair and Alternate Councilor for the Division of Chemical Health and Safety of the American Chemical Society (1995-98)  
Member of the National ACS - Women Chemists Committee (1994-97) Subcommittee Chair  
Chair-Elect (1996) Salt Lake City Section of the American Chemical Society  
Member of the National ACS National Chemistry Week Task Force (1994-95)  
Immediate Past Chair (1994) Northeastern Oklahoma Section of the American Chemical Society  
Chair (1993) Northeastern Oklahoma Section of the American Chemical Society (Section Received Special Recognition for Public Outreach Activities in 1993)  
Chair-Elect (1992) Northeastern Oklahoma Section of the American Chemical Society  
Co-Chair of the 1992 Pentasectional Meeting of the American Chemical Society  
National Chemistry Week Coordinator and Special Events Chairman of the Northeastern Oklahoma Section of the American Chemical Society (1990-1991)  
Outstanding Research Assistant, Department of Physics, Oklahoma State University (1988)  
SPS Outstanding Graduate Student 1988 and 1986, Department of Physics, Oklahoma State University Outstanding Teaching Assistant, Department of Physics, Oklahoma State University (1985)  
Outstanding Student School of Math and Science, Central State University (1984)  
Outstanding Physics Student, Central State University (1984)  
Best Paper Presentation - Oklahoma Junior Academy of Science (1984)  
Physics Departmental Service Award, Central State University (1983)

## INDUSTRIAL EXPERIENCE

2013- Present            Sophic Pursuits, Inc., Ponca City, OK, Principal

Responsibilities: Environmental air consulting services for the petrochemical industry and developing science education materials.

2007-2013            Trihydro Corporation, Ponca City, OK, Senior Air Professional

Responsibilities: Environmental air consulting services for the petrochemical industry.

2005-2007            ConocoPhillips, Houston, TX Director, Compliance Decree Coordination, North America Refining

Responsibilities: Coordination of the Benzene NESHAPs and Leak Detection Networks for North America Refining operations.

2002-2005 ConocoPhillips, Ponca City, OK, Director Business Services Downstream Technology

Responsibilities include: finance, training, business analysis and special projects. The group consists of sixteen people and manages the budget, and all of the business operations for Downstream Technology.

2001-2002 Phillips Petroleum, Bartlesville, OK, Technology Services Marketing Manager

Responsibilities: development of a business plan, a business model and marketing strategy for “in-sourcing” research and development.

1999-2001 Phillips Petroleum, Borger, TX, Quality Assurance Team Leader

Responsibilities: management of the Borger Refinery Laboratory. The laboratory provides all of the quality assurance testing for the products produced at the Borger Refinery and NGL Facility. Until December 2000, the laboratory also provided the quality assurance testing for the Phillips Petroleum Philtex Chemical Complex (laboratories were separated due to the formation of the Chevron Phillips Chemical Company).

1998-1999 Phillips Petroleum, Bartlesville, OK, Site Manager

Responsibilities: Environmental Compliance and Remediation Activities for the Phillips Petroleum Non-Operating Sites at various.

1994-1998 Phillips Petroleum, Woods Cross Refinery, Woods Cross, UT, Environmental Scientist

Responsibilities: Environmental Compliance Activities for the Phillips Petroleum Woods Cross Refinery. Job responsibilities include: air issues, Toxic Substance Control Act (TSCA), Oil Pollution Act (OPA), Community Right-to-Know, and other SARA activities. Primary activities include: air permitting; Title V permitting; air emissions reporting including continuous emissions monitoring; accidental release prevention planning (OPA 90 plans, Spill Prevention Control and Countermeasures plan, and Risk Management Plans); TSCA compliance; and routine SARA reporting (Tier II, and Toxic Release Inventory).

1989 - 1994 Phillips Petroleum, Research and Development Center, Bartlesville, OK, Research Associate Physicist  
Staff Research Physicist (1989-1992)

## ACADEMIC EXPERIENCE

2014 – Present Northern Oklahoma College  
Division Chair, Eng., Physical Science, and PTEC  
Tenured Lecturer, Physical Sciences  
Director, Process Technology Program  
Courses include: Physics (Concepts, College and Engineering), Statics, Systems, General Chemistry, and Earth Science.

Fall 2013 Oklahoma State University, Department of Chemistry, Lecturer

1984 - 1989 Oklahoma State University, Department of Physics, Stillwater, OK  
Research Assistant for Dr. B. J. Ackerson (1985 - 1989)  
Laboratory Improvement Coordinator (Aug 1987 - May 1988)  
Instructor - General Physics I, Spring 1987  
Teaching Assistant - General Physics Laboratories. (1984 - 1989)

1981 - 1984            Central State University (now University of Central Oklahoma),  
Department of Physics, Edmond, OK  
Research Assistant - Dr. W. Marks (1982 - 1984)  
Laboratory Assistant - General Physics Laboratories (1983-1984)

## **CURRENT RESEARCH ACTIVITIES AND AREAS OF INTEREST**

Implementation of Global Harmonization Efforts (Safety)  
Toxic Substance Control Act

## **PUBLICATIONS AND PATENTS**

“Incorporating Chemical Safety Awareness as a General Education Requirement - Case Study” Journal Chemical Health and Safety, F. Wood-Black, Online Publication Date 13-Jun-19

All about Science Column, Weekly Science Column in the *MidWeek, Ponca City News* – 2019 and in the Woodward News

All about Science Column, Weekly Science Column in the *MidWeek, Ponca City News* – 2018

“Making Water Safe to Drink” *ChemMatters* October 2017

All about Science Column, Weekly Science Column in the *MidWeek, Ponca City News* – 2017

Web: How Scent Chemicals in Flowers Perfume the Summer Air, July 3, 2017,  
<https://inchemistry.acs.org/content/inchemistry/en/atomic-news/summer-scents.html>

Web: Going Skin Deep: The Culture and Chemistry of Tattoos, Feb. 1, 2017,  
<https://inchemistry.acs.org/content/inchemistry/en/atomic-news/tattoo-ink.html>

All about Science Column, Weekly Science Column in the *MidWeek, Ponca City News* – 2016

“You don’t have to be a Scientist to get Your Children Involved in Science!” Texas Home School Coalition Review, Feb. 2016, pg. 27

All about Science Column, Weekly Science Column in the *MidWeek, Ponca City News* – 52 Columns, 2015

*Discovering Chemistry*, Sophic Pursuits, Inc., 2015, Frankie Wood-Black

“EPA’s Proposed Petroleum Refinery Sector Rule”, Pollution Engineering, Oct. 2014 (Cover Story), page 18.

“Incorporating Safety into the General Chemistry Curriculum”, Journal Chemical Health and Safety, F. Wood-Black, Volume 21, Number 5, pg. 14.

“Challenges of Going Global – Complying with the New Global Harmonization Standard”, Journal Chemical Health and Safety, Timothy Black and F. Wood-Black, Volume 20, Number 6, page 19-23.

*Staying Safe while Conducting Hands-On Science*, Sophic Pursuits, Inc. 2013, Frankie Wood-Black

*Perspectives on Biofuels: Potential Benefits and Possible Pitfalls*, 2013, ACS Symposium Series 1116, Edited by Caroline Taylor, Rich Lomneth, and Frankie Wood-Black

“Overcoming Nontechnical Barriers to the Implementation of Sustainable Solutions in Industry”, *Environmental Science and Technology*, June 15, 2009, Martin Abraham, et.al.

Contributing Column, Journal Chemical Health and Safety, F. Wood-Black, all issues 2007, 2008, 2009, 2010, and 2011.

*Sustainability in the Chemical Industry, Grand Challenges and Research Needs*, 2006, National Research Council, Committee Report, Committee member.

CHAS Netways, Chemical Health and Safety, F. Wood-Black and T. Pasquarelli, all issues 1997 -2006.

*Successful Women in Chemistry, Corporate America's Contribution to Science*, 2005, Ed. Amber Hinkle, and J. Kocsis, Contributing Author.

*Water and Sustainable Development; Opportunities for the Chemical Sciences, A Workshop Report to the Chemical Sciences Roundtable*, Perry Norling, Frankie Wood-Black and Tina M. Maciangioli, Editors, National Research Council, National Academies Press, Washington, D.C. 2004

*Emergency Preparedness Planning – A primer for Chemists*, T. Pasquarelli and F. Wood-Black, Oxford University Press, ISBN 0-8412-3579-1, Copyright 1999.

Book Review - *Hazardous Materials Reference Book Cross-Index* by Daniel J. Davis and Julie A. Davis, Chemical Health and Safety, Sept./Oct. 1996, Vol. 3, No. 5, pg. 42.

Book Review - *Tools for Making Acute Risk Decisions with Chemical Process Safety Applications*, Center for Chemical Process Safety of the American Institute of Chemical Engineers, Chemical Health and Safety, Jan./Feb. 1996, Vol. 3, No. 1, pg. 40.

"Photostabilization of Poly(phenylene sulfide)"; P. K. Das, P. J. DesLauriers, F. K. Wood, and F. J. Cornforth; Polymer Degradation and Stability, Volume 48, Number 1, 1995, page 1.

"Photodegradation and Photostabilization of Poly (phenylene sulfide). Part 2. UV Induced Physicochemical Changes"; P. K. Das, P. J. DesLauriers, F. K. Wood, and F. J. Cornforth; Polymer Degradation and Stability, Volume 48, Number 1, 1995, page 11.

"Robotic Automation of Routine Environmental Water Monitoring Assays (BOD Test)"; J. B. Cross, G. L. Dorsey, R. D. Jones, F. K. Wood-Black, and T. H. Backhouse, Laboratory Robotic Automation, Vol. 6. pp. 247-253, 1994.

"Statistical versus Physical Audits of a Chemical Inventory System"; P. Stevens, G. Hatfield, W. F. Farrell and F. Wood-Black; Chemical Health and Safety, August/September Issue 1994.

"Photodegradation and Photostabilization of Poly(phenylene sulfide). Part 1. Laser Flash Photolysis Studies of Model Compounds"; P. K. Das, P. J. DesLauriers, F. K. Wood, and F. J. Cornforth; Macromolecules, Vol. 26, No. 19, 1993, pg 5024-5029.

"Apparatus and Process for Detecting the Presence of Defects on a Moving Sheet of Material", M. J. Dreiling, F. K. Wood-Black, and G. A. Moczygemba, Patent June 15, 1993, Patent Number 5,220,178.

"Transverse Radiation Pressure Forces for Finite Sized Colloidal Particles"; A. H. Chowdury, F. K. Wood, and B. J. Ackerson; Optical Communications, Vol. 86, 1991.

"External Field Induced Order in Suspensions"; A. H. Chowdury, F. Wood, K. Loudiyi, and B. J. Ackerson; Yamada Conference XIX, Ordering and Organization in Ionic Solutions, Ed. N. Ise, I. Sogami, World Scientific, Singapore, p. 367, 1988.

"All-Optical Logic Gates Using Crossed Laser Beams in Colloids"; A. H. Chowdury, F. K. Wood, B. J. Ackerson, M. A. Karim, and A. A. S. Awwal; Microwave and Optical Technology Letters, Vol. 1, No. 5, July 1988.

## PRESENTATIONS AND SYMPOSIA

"Looking at life from both sides now" – 253<sup>rd</sup> ACS National Meeting April 2-6, 2017 San Francisco, CA.

"Keeping it safe for everyone – the Division of Chemical Health and Safety" – 252<sup>nd</sup> ACS National Meeting August 21-25, 2016 Philadelphia, PA.

"You have 5 minutes with your elected representative. What would you ask him or her to do related to safety?" - 252<sup>nd</sup> ACS National Meeting August 21-25, 2016 Philadelphia, PA.

"Good neighbors – What does it take to be a good neighbor?" - 252<sup>nd</sup> ACS National Meeting August 21-25, 2016 Philadelphia, PA.

"What is in a code of conduct?" - 252<sup>nd</sup> ACS National Meeting August 21-25, 2016 Philadelphia, PA.

"Industrial and Engineering Chemistry – Chemistry that works." - 252<sup>nd</sup> ACS National Meeting August 21-25, 2016 Philadelphia, PA.

“Unintended consequences: Removing barriers to going green working in environmental compliance.” - 252<sup>nd</sup> ACS National Meeting August 21-25, 2016 Philadelphia, PA.

Roundtable Discussion – “Creating a Balance Between Inspiration, Learning, and Safety.” – 2016 NISOD International Conference on Teaching and Leadership Excellence, May 28-31, Austin, Texas, May 29, 2016.

“Benefits of two-year institutions for employment and employers” – 251<sup>st</sup> ACS National Meeting March 22-26, 2016 San Diego, CA March 13-17. March 13, 2016.

“Playing by the rules: Knowing what applies and what information you have to maintain regarding your chemical inventory.” – 251<sup>st</sup> ACS National Meeting March 22-26, 2016 San Diego, CA March 13-17. March 14, 2016.

Roundtable Discussion – “Real-World Problems for the Classroom” –International Conference on Teaching and Leadership Excellence – NISOD 2015, May 23-26, Austin, Texas – Austin Convention Center. May 25, 2015.

“Paying it Forward: Small actions and encouragement result in a grand legacy” – 249<sup>th</sup> ACS National Meeting March 22-26, 2015 Denver, CO. March 23, 2015.

“Teaching basic technique: A view into preparing for a safer educational and work environment.” – 249<sup>th</sup> ACS National Meeting March 22-26, 2015 Denver, CO. March 23, 2015.

“Communicating Safety Information” – 248<sup>th</sup> ACS National Meeting, August 10-14, 2014 San Francisco CA, August 12, 2014.

“Discovering Chemistry: A Laboratory Course” - 248<sup>th</sup> ACS National Meeting, August 10-14, 2014 San Francisco CA, August 11, 2014.

“Case studies in preparation for the task – adding safety and quality upfront” – 247<sup>th</sup> ACS National Meeting, March 16-20, Dallas, TX, March 17, 2014.

“Pros and cons of eLearning: Real Life Challenges” - 247<sup>th</sup> ACS National Meeting, March 16-20, Dallas, TX, March 17, 2014.

“Management in the face of change — Good Engineering Practices”, 13<sup>th</sup> LDAR Symposium, ISA, May 2013

“Implementation and Maintenance of LDAR Programs for Oil and Gas Sites”, Workshop Presenter, ISA, 2012-2013

“Considerations for scale-up: Moving from the bench to the pilot plant”, Presented at the 245<sup>th</sup> National Meeting of the American Chemical Society (New Orleans, LA) April 2013

“Challenges in complying with the new standard: A study in the acceptance of the changes”, Presented at the 245<sup>th</sup> National Meeting of the American Chemical Society (New Orleans, LA) April 2013 – Co-author.

“Challenges of going global: Hazard Communication”, Presented at the 245<sup>th</sup> National Meeting of the American Chemical Society (New Orleans, LA) April 2013

“Recognizing the efforts and contribution of others: How the little things make a big difference”, Presented at the 244<sup>th</sup> National Meeting of the American Chemical Society (Philadelphia, PA) Fall 2012

“Spot the Hazard” Poster - Presented at the 242<sup>nd</sup> National Meeting of the American Chemical Society (Denver, CO) Fall 2011

“Finally getting it after all these years,” Presented at the 242<sup>nd</sup> National Meeting of the American Chemical Society (Denver, CO) Fall 2011

ACS Webinars – “Fostering Innovation,” June 2011

“Monitoring Period Challenges—Weekly, Monthly, Skip, and Out-of/Return-to Service Issues”, 11<sup>th</sup> LDAR Symposium, May 2011

“Toxic Substances Control Act: Regulatory changes and potential future emphasis”, Presented at the 241<sup>st</sup> National Meeting of the American Chemical Society (Anaheim, CA) Spring 2011

“Spot the Hazard: Can you find the hazards in these photos” Poster - Presented at the 241<sup>st</sup> National Meeting of the American Chemical Society (Anaheim, CA) Spring 2011

Trihydro Corporation Webinar – “Preparing for the Inventory Update Rule”, February 2011.

"Toxic Substance Control Act – Preparing for the Inventory Update Rule and Future." Poster NPRA Conference, September 2010

"Words into action: Sustainability", Presented at the 240<sup>th</sup> National Meeting of the American Chemical Society (Boston, MA) Fall 2010

"Did I really see that? Can you spot the hazard" Poster - Presented at the 240<sup>th</sup> National Meeting of the American Chemical Society (Boston, MA) Fall 2010

"Unintended consequences: Evaluation of the pros and cons of new technologies and regulatory drivers as they relate to potential changes in behavior and infrastructure," Presented at the 239<sup>th</sup> National Meeting of the American Chemical Society (San Francisco, CA) Spring 2010

"Oh No! I really did not see that!" Poster - Presented at the 240<sup>th</sup> National Meeting of the American Chemical Society (Boston, MA) Fall 2010

"The green chemistry challenge: Applying concept to practice" Presented at the 237<sup>th</sup> National Meeting of the American Chemical Society (Salt Lake City, UT) Spring 2009

"Recognizing the hazards" Presented at the 236<sup>th</sup> National Meeting of the American Chemical Society (Philadelphia, PA) Fall 2008

"*The Process Engineers Pocket Handbook* and other guides" Presented at the 236<sup>th</sup> National Meeting of the American Chemical Society (Philadelphia, PA) Fall 2008

"REACH, ChAMP, and all the five letter words" Presented at the 236<sup>th</sup> National Meeting of the American Chemical Society (Philadelphia, PA) Fall 2008

"Bringing theory to reality: Beta testing adventures" Presented at the 235<sup>th</sup> National Meeting of the American Chemical Society (New Orleans, LA) Spring 2008

"Unintended consequences: Potential pitfalls for the future" Presented at the 235<sup>th</sup> National Meeting of the American Chemical Society (New Orleans, LA) Spring 2008

"Thought experiments and experimental design" Presented at the 235<sup>th</sup> National Meeting of the American Chemical Society (New Orleans, LA) Spring 2008

"Where's the hazard?" Presented at the 234<sup>th</sup> National Meeting of the American Chemical Society (Boston, MA) Fall 2007

"Creating the WOW!" Presented at the 234<sup>th</sup> National Meeting of the American Chemical Society (Boston, MA) Fall 2007

"Hands on learning: The joy of discovery" Presented at the 234<sup>th</sup> National Meeting of the American Chemical Society (Boston, MA) Fall 2007

"Who me? Just how does one end up here?" Presented at the 234<sup>th</sup> National Meeting of the American Chemical Society (Boston, MA) Fall 2007

"Safety considerations for science in the home school environment" Presented at the 234<sup>th</sup> National Meeting of the American Chemical Society (Boston, MA) Fall 2007

"What If? Thinking about what is possible". Division of Chemical Health and Safety, Presented at the 231<sup>rd</sup> National Meeting of the American Chemical Society (Atlanta, GA) March 2006

"Spot the hazard: On television." Division of Chemical Health and Safety, Presented at the 231<sup>rd</sup> National Meeting of the American Chemical Society (Atlanta, GA) March 2006

"Spot the hazard: In the laboratory" Division of Chemical Health and Safety, Presented at the 231<sup>rd</sup> National Meeting of the American Chemical Society (Atlanta, GA) March 2006

Science and Society POD Cast, Interview, October 12, 2006 – Sustainability.

"One to get ready, two to get steady, three to go." Division of Chemical Health and Safety, Presented at the 231<sup>rd</sup> National Meeting of the American Chemical Society (New York, NY) August 2003

"Removing Barriers – PROGRESSing Toward the Future", Advancement and Retention of Female Chemical Engineers: Issues and Strategies, 2002 Annual Meeting American Institute of Chemical Engineers, (Indianapolis, IN) November 2002



“Glass Cutters: Tools for making holes in the ceiling”, F. K. Wood-Black, Presented at the 224<sup>th</sup> National Meeting of the American Chemical Society (Boston, MA) August 2002

Organizer “Breaking Glass Ceilings – Tools for Overcoming Hurdles, Barriers and Narrow Thinking”, Division of Industrial & Engineering Chemistry, Presented at the 224<sup>th</sup> National Meeting of the American Chemical Society (Boston, MA) August 2002

Organizer “Things that Lurk in the Dark: Common Hazards under Your Nose”, Division of Chemical Health and Safety, Presented at the 223<sup>rd</sup> National Meeting of the American Chemical Society (Orlando, FL) April 2002

“Trip, Bump, Crash – Hazards, What Hazards?”, F. K. Wood-Black, Presented at the 223<sup>rd</sup> National Meeting of the American Chemical Society (Orlando, FL) April 2002

“Quantifying Risk – Putting Things into Proper Perspective”, F. K. Wood-Black, Presented at the 223<sup>rd</sup> National Meeting of the American Chemical Society (Orlando, FL) April 2002

“Charting the Course – Preparing to Trek the Career Path”, F. K. Wood-Black, Presented at the 223<sup>rd</sup> National Meeting of the American Chemical Society (Orlando, FL) April 2002

“It is a Two Way Street; The Art of Mentoring in the Industrial Setting”, F. K. Wood-Black, Presented at the 223<sup>rd</sup> National Meeting of the American Chemical Society (Orlando, FL) April 2002

“2002 A pilot plan for the future: ACS increases its support for women in the chemical workforce”, F. K. Wood-Black, C. Pruitt, Presented at the 222<sup>nd</sup> National Meeting of the American Chemical Society (Chicago, IL) August 2001

Symposium “Clay or Steel: What is Happening in the Chemical Pipeline?” F. K. Wood-Black, Organizer, 222<sup>nd</sup> National Meeting of the American Chemical Society (Chicago, IL) August 2001

Symposium “Collaborations for the Benefit of All” J. Wesemann, N. M. Tooney, and F. K. Wood-Black, Organizers, 222<sup>nd</sup> National Meeting of the American Chemical Society (Chicago, IL) August 2001

“It’s a jungle out there..” F. K. Wood-Black, Presented at the 2001 Mid-Atlantic Regional American Chemical Society Meeting (Towson, MD) May 30, 2001

“My rose-colored glasses” F. K. Wood-Black, Presented at the 2001 Spring Meeting of the American Chemical Society (San Diego, CA) April 1, 2001. (Visions of the Future: How Do We Get There? Symposium)

Symposium “Visions of the Future: How Do We Get There?” F. K. Wood-Black, Organizer, 221<sup>st</sup> National Meeting of the American Chemical Society (San Diego, CA.) April 2001

“What’s Up” F. K. Wood-Black, Presented at the 2001 Spring Meeting of the American Chemical Society (San Diego, CA) April 2, 2001. (Women in the Chemical Workforce Symposium)

Symposium “Women in the Chemical Workforce” F. K. Wood-Black & J. Oysteryoung Organizers, 221<sup>st</sup> National Meeting of the American Chemical Society (San Diego, CA.) April 2001

“Results have been tabulated and the winner is” F. K. Wood-Black, Presented at the 2001 Spring Meeting of the American Chemical Society (San Diego, CA) April 2, 2001. (Women Chemists in the New Millennium Symposium)

Symposium “Women Chemists in the New Millennium” F. K. Wood-Black & J. Long Organizers, 221<sup>st</sup> National Meeting of the American Chemical Society (San Diego, CA.) April 2001

“Preparing for the future: A traveler’s guide for the road ahead” F. K. Wood-Black, Presented at the 2001 Spring Meeting of the American Chemical Society (San Diego, CA) April 3, 2001. (Innovative Approaches in Encouraging Women in the Chemical Sciences: Award Symposium Honoring Christina Bodurow)

Symposium “Innovative Approaches in Encouraging Women in the Chemical Sciences: Award Symposium Honoring Christina Bodurow” D. A. Brooks & F. K. Wood-Black, Organizer, 221<sup>st</sup> National Meeting of the American Chemical Society (San Diego, CA.) April 2001

“A Chance Encounter” F. K. Wood-Black, Presented at the 2000 Fall Meeting of the American Chemical Society (Washington, D.C.) August 22, 2000. (Gertrude Elion Memoriam Symposium)

Symposium "Gertrude Elion Memoriam Symposium" F. K. Wood-Black Organizer, 220<sup>th</sup> National Meeting of the American Chemical Society (Washington, D.C.) August 2000

"Changing the Face of Science" F.K.Wood-Black, Presented at the 2000 Fall Meeting of the American Chemical Society (Washington, D.C.) August 20, 2000. (Historically Significant Educators Symposium)

"Being a Good Scout: Knowledge is Preparation" F. K. Wood-Black, Presented at the 2000 Spring Meeting of the American Chemical Society (San Francisco, CA) March 27, 2000.

Symposia "Emergency Preparedness Training/Lab Safety in a Fault Zone" F. K. Wood- Black & J. G. Palmer Organizers. 219<sup>th</sup> National Meeting of the American Chemical Society (San Francisco, CA) March 2000

"So.. You think you are going to work as a ...Adventures of an Industrial Researcher" – F. K. Wood-Black, Presented at the 1999 Fall Meeting of the American Chemical Society (New Orleans, LA) August, 1999.

"Surviving the Culture – Environmental Management in a Social Framework" - F. K. Wood-Black, Presented at the 1998 Fall Meeting of the American Chemical Society (Boston, MA) August, 1998

"Diversity and Culture: Elements of Success" – F. K. Wood-Black, Presented at the 1998 Spring Meeting of the American Chemical Society (Dallas, TX) March 29, 1998

Presentation at the API TSCA Workshop, San Antonio, TX, March 10, 1998 – Calculations for the Inventory Update Rule, Form U.

Presentation at the API TSCA Workshop, New Orleans, LA, November 1, 1997 – Experiences with a TSCA inspection.

"Environmental Management In Today's Petrochemical Industry" – F. K. Wood-Black, Presented at the 1997 Fall Meeting of the American Chemical Society (Las Vegas, NV) September 1997.

"Drowning in the Flood" – F. K. Wood-Black, Presented at the 1997 Fall Meeting of the American Chemical Society (Las Vegas, NV) September 1997.

Panel Member – AWMA Short Course on New Source Review – Feb. 7, 1997.

Session Chair - "Professional Success" - Making an Impact Conference for Women and Minorities. Saturday, April 20, 1996.

Panel Member - NPRA's Environmental Committee Meeting. Feb. 29, 1996.

Symposium Chair - -Strategies for Developing and Implementing Risk Management Plans a Symposium Sponsored by the Division of Chemical Health and Safety of the American Chemical Society at the 210<sup>th</sup> ACS National meeting Chicago, IL August 20-25, 1995

"Statistical versus Physical Audits of a Chemical Inventory System"; P. Stevens, G. Hatfield, W. F. Farrell and F. Wood-Black; presented at the March 1994 National American Chemical Society Meeting (San Diego, CA.)

"Robotic Automation of Routine Environmental Water Monitoring Assays (BOD Test)"; J. B. Cross, G. L. Dorsey, R. D. Jones, F. K. Wood-Black, and T. H. Backhouse, Presented at the ACS Pentasectional Meeting (Ponca City, OK) Aug. 8, 1993

"Laser Flash Photolysis Studies of Model Compounds Related to Poly(p-Phenylene Sulfide)"; P. K. Das, P. J. Deslauriers, D. R. Fahey, F. Wood-Black, F. J. Cornforth; Presented at the ACS Pentasectional Meeting (Bartlesville, OK) Feb. 29, 1992.

"Interactions of Colloidal Particles in the Presence of Parallel Applied Fields" F. K. Wood and B. J. Ackerson; Presented at the Fall 1988 Meeting of the Materials Research Society, Boston, MA.

"Interactions of Colloidal Particles in the Presence of Parallel Applied Fields"; F. K. Wood and B. J. Ackerson; Presented at the Fall 1988 National Meeting of the American Chemical Society, Los Angeles, CA.