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MEYER R. ROSEN, FRSC, FACFE
FAIC, CPC, CChE, CFEI, DABFET

CERTIFICATIONS:

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| FACFE: | Fellow: American College of Forensic Examiners |
| CChem, FRSC | Chartered Chemist and Fellow: Royal Society of Chemistry (London) |
| FAIC | Fellow: American Institute of Chemists |
| CPC, CChE | Certified Professional Chemist, Certified Professional Chemical Engineer- National Certification Commission in Chemistry and Chemical Engineering |
| CFEI | Certified Fire & Explosion Investigator (AdvancedTraining), National Certification Board, National Association of Fire Investigators |
| DABFE: | Diplomate: American Board of Forensic Examiners |
| DABFET: | Diplomate: American Board of Forensic Engineering and Technology |

Professional Summary

Mr. Rosen has over 35 years of industrial and academic of experience in the field of chemistry and chemical engineering. He has consulted with hundreds of corporations involved in the development, optimization, technical marketing and quality control of new and existing consumer and industrial products. Mr. Rosen is experienced in products liability, personal injury and intellectual property cases. These include, but are not limited to: consumer and household products as well as industrial products and processes. He has worked with numerous law firms and insurance companies in both plaintiff and defense cases and taken training in courtroom procedures.

His background includes: accident reconstruction, strategic planning, hazardous chemicals, toxic exposures, chemical burns, and uncovering safer alternatives. Mr. Rosen also has advanced training as a nationally certified fire and explosion investigator and is skilled at determining the origin and cause of fires and explosions relating to flammable liquids, gases & solids as well as aerosol fires. He is also experienced in products liability issues and complex litigation relative to safety in design, formulation, packaging and handling, warnings and instructions and labels.

His Professional Certifications include being a nationally certified Professional Chemist and Professional Chemical Engineer. He is also a Fellow of the American College of Forensic Examiners and a Board Certified Forensic Examiner. Mr. Rosen is a Diplomate of the American Board of Forensic Engineering and Technology and a Nationally certified fire and explosion investigator. He is a past Executive Advisor to the American Board of Forensic Engineering and Technology. Meyer is a member of the Executive Advisory Board of the Knovel Corporation, where he is responsible for guiding selection of science and engineering book content for hundreds of corporations, the U.S. patent office and the Royal Society of Chemistry (London).

As an Adjunct Professor of Chemistry for 15 years, Mr. Rosen trained the senior firefighters of New York City and surrounding cities in a course he designed on Fire Chemistry, Hazardous Chemicals and Fire Extinguishing Methods.

In so far as his experience in the science and technology of fires and explosions, Mr. Rosen is a member of the Fire Science & Technology Educators Section of the National Fire Protection Association. He has taken training at the National Fire, Arson and Explosion Investigation Training Program and the National Seminar on Fire Analysis Litigation. Mr. Rosen has also taken Advanced Training in the Fire, Arson and Explosion Investigation Science and Technology Program co-sponsored by the National Fire Protection Association and the National Association of Fire Investigators (2005).

Mr. Rosen is a past Vice President of the Association of Consulting Chemists and Chemical Engineers and on its Executive Board of Directors. He is a voting member of several Standards-Making Committees of the American Society of Testing Materials (ASTM). These committees include: halogenated organic solvents, fire-extinguishing agents, fire standards, industrial chemicals, and hazard potential of chemicals. He also serves on several other ASTM committees including: forensic

sciences, occupational health and safety, consumer products, hazardous substances, and industrial chemicals. Mr. Rosen has extensive experience in the preparation and analysis of Material Safety Data Sheets, as well as the filing of Regulatory Applications for the Environmental Protection Agency.

Mr. Rosen currently serves as Chief Scientific Advisor and Director of Technical Symposia for HBA (Health & Beauty, America) Global Expo, the largest technical exposition in this field in the U.S.; has been the Chairman and Organizer of the Annual HBA Global Expo Safety, Regulatory and Certification Summit since 2006- a major international technical conference covering the impact of global Regulations on the personal care and cosmetic industry. He also serves as Book Series Editor of Elsevier Publishing Personal Care and Cosmetic Technology Series.

Litigation Support Experience

Meyer's technical product litigation experience includes, but is not limited to:

► Products Liability, Chemical Technology, Accident Reconstruction, Fires & Explosions, Hazardous Chemicals, Household and Industrial Products, Safety in Design & Formulation, Safer Alternatives & Safety in Packaging and Handling; Chemical Burns & Toxic Exposures; Technical Aspects of Warnings, Instructions and Labels; Personal Care & Cosmetic Products; Hair Relaxers, Hair Coloring Issues; Chemistry & Chemical Engineering: Product & Process Issues. OSHA Regulations, Codes & Standards, Intellectual Property Management, including patent analysis/infringement as well as trade secret litigation.

Education

M.S. Chemical Engineering: Polytechnic Institute of Brooklyn (1966). Developed color toners for three- dimensional Xerox process under grant from Naval Weapons Test Laboratory.

B.S. Chemical Engineering: Polytechnic Institute of Brooklyn (1964).

- John Zink Burner School: burner design, combustion in fired heaters; flare design & operation, furnace operation (1979).
- National Fire, Arson & Explosion Investigation Training Program, Sarasota, FL (2001).
- National Seminar on Fire Analysis Litigation, Sarasota, FL (2001)
- Skin Care Science for the Cosmetic Chemist, (Fairleigh Dickenson University (2004).
- Expert Testimony in Litigation, Law Seminars International (2004): Training in Courtroom procedures.
- National Advanced Fire, Arson and Explosion Investigation Science and Technology Program (2005)

- Global Perspectives on Environmental Risk, Allen & Overy LLP, Continuing Legal Education Program, New York City (Oct. 20, 2006)

Professional Experience

1992-Present

Interactive Consulting, Inc.
East Norwich, N.Y. 11732
Position: President

Work includes, but is not limited to, the application of fundamental polymer and surface chemistry principles to a wide variety of market development & technological issues associated with the Specialty Chemicals & Allied Industries. Conducts corporate training in mind map technology, runs ideation/brainstorming sessions, does technical marketing, customized technology and market research, technology transfer and technical writing. Mr. Rosen is Chief Scientific Advisor and Director of Technical Symposia for HBA Global Expo (www.hbaexpo.com), and responsible for the design and organization of all technical conference programs. Meyer is also the Designer and Organizer of HBA's Annual International Safety, Regulatory and Certification Summit Conference Programs. Mr. Rosen is on the Executive Advisory Board of the Knovel Corporation where he is responsible for providing content guidance for hundreds of corporations, the U.S. Patent Office and the Royal Society of Chemistry (London). He serves as expert witness in chemistry and chemical engineering technology and their application to consumer and industrial products relative to product development, safety and intellectual property issues.

1979-1992

Union Carbide Corporation
Boundbrook, N.J.

Position: Development Scientist

Provided technical support and problem solving for POLYOX Water Soluble Resin: poly (ethylene oxide).

Managed a one-year safety program for 60 scientists and engineers. Trained 24 instructors who ran monthly safety awareness seminars on handling hazardous chemicals and equipment. Responsible for site laboratory facility safety issues.

Prepared Material Safety Data Sheets and technical literature describing chemical products and hazards. Set up a computer-generated MSDS for product formulations containing multiple hazardous chemical components. Consultant on "Rapid Water" fire extinguishing system used by New York City Fire Department.

Responsible for chemical/equipment safety aspects of laboratory facilities including review of Material Safety Data Sheets.

Responsible for safety protection in loud noise, taconite dust environments at temperatures from -30 degrees F. Set up and supervised thermoplastic polymer processing laboratory and insured safe operation.

Developed poly (acrylamide) and poly (ethylene oxide) flocculants and coagulants for the separation of suspended particulates in process wastes associated with industrial wastewater treatment. Conducted extensive field and lab trial development programs for coagulants and flocculants in phosphate mining waste reclamation and coal wastes. Developed taconite ore binders for use in iron ore pelletizing processes.

1973-1979

Union Carbide Corporation, Tarrytown, N.Y.

Position: Project Scientist

Conducted research on fuel combustion and developed additives for increasing fuel combustion efficiency. Consulted on effect of silicone surfactants as flame-retardants for polyurethane foam.

1966-1973

Union Carbide Corporation, Tonawanda, N.Y.; Tarrytown, N.Y.

Position: Research Engineer

Developed aqueous film-forming fire-fighting foam widely used by military and civilians for airplane crash fires. Conducted applied research in silicone surface-active agents.

Academic Experience

1970-84

Adjunct Professor, Chemistry Dept. Westchester Community College,
Valhalla, N.Y.

Designed and taught a Fire Science, Fire Chemistry, Chemical Hazard and Toxicology course. Instructed senior professional firefighters of New York City and surrounding cities in hazardous chemical technology of flammable, toxic and explosive chemicals. Taught physics and chemistry of modern fire extinguishing methods including: AF-3 aqueous film forming foam, low and high expansion foam; Halon and dry powder agents.

1984

Course Director, Center for Professional Advancement,
East Brunswick, N.J.

Designed, Organized, Managed and Taught 3-day course in "Scientific Fire Fighting".

Professional Associations

- American Board of Forensic Engineering & Technology, Executive Advisor
- American Chemical Society
- American Institute of Chemical Engineers
- American College of Forensic Examiners

- ACS Division of Colloid and Surface Chemistry
- American Industrial Hygiene Association / Member Noise Committee
- American Institute of Chemists, Former Director
- American Society of Safety Engineers
- Assoc. of Consulting Chemists/Chemical Engineers: Executive Director,

Past V.P.

- National Association of Fire Investigators
- National Fire Protection Association:
 - Member, Fire Science & Technology • Educators Section;
 - Former member Fire Fighting Foam Subcommittee (Standards -making body).
- Société de Chimie Industrielle, American Section
- Society of Cosmetic Chemists
- Controlled Release Society (Member of Consumer & Diversified Products Committee)

- American Society for Testing & Materials (ASTM) Committees:
 - D-1 Paint & Related Coatings, Materials & Applications
 - D-3 Gaseous Fuels
 - D-12 Soaps & other Detergents
 - D-13 Textiles
 - D-14 Adhesives

- American Society for Testing & Materials (ASTM) Committees:
 - D-26 Halogenated Organic Solvent & Fire Extinguishing Agents
 - E-5 Fire Standards
 - E-15 Industrial Chemicals
 - E-27 Hazard Potential of Chemicals
 - E-30 Forensic Sciences
 - E-34 Occupational Health & Safety
 - E-35 Pesticides
 - E-48 Biotechnology
 - E-51 Environmental Risk Management
 - F-15 Consumer Products
 - F-20 Hazardous Substances & Oil Spill Response
 - F-23 Protective Clothing

Awards and Acknowledgments

- Listed in:
- Who's Who in The East, 1996-2002.
 - Who's Who in Finance and Industry, 1996.
 - International Who's Who of Professionals, 1996, 1997.
 - Who's Who in Science and Engineering, 1996-2006
 - Who's Who in America, 1996-present.
 - American Institute of Chemists Professional Directory, 1996.
 - Dictionary of International Biography (Cambridge, England, 1998).
 - Honored Member - Strathmore's Who's Who – 1999
 - Outstanding People of the 20th Century, International Biographic Center, Cambridge, England, 1999.

Peer Reviewer: Professional Journals

Journal of Chemical Education
The Chemist
Journal of Testing and Evaluation (American Society of Testing Materials-ASTM)
Cosmetics & Toiletries, Journal of Controlled Release Society

NEWSMEDIA INTERVIEWS & QUOTES

Mr. Rosen has been interviewed and quoted in the press by a variety of chemical industry publications. These include: DowJones.com (Chem Show 2000), Chemical Marketing Reporter (May 12, 2003), Soap & Cosmetics (Sept. 2002), Chemical and Engineering News (March 3, 2003), The Journal of Surfactants & Detergents (2004), Chemical and Engineering News (May 3, 2004), Women's Wear Daily (Aug. 16, 2005), Medesthetics Magazine (October 2005), Global Cosmetic Industry Magazine (pg. 34, Jan. 2006). Associated Press Television Interview on Trends in Personal Care (April 18, 2006-National Syndication).

Mr. Rosen was selected as "Expert of the Month" by HGexperts.com, a widely recognized resource for attorneys and insurance companies (April 2006). He was recently quoted in an article entitled: "Ingredient Regulations and Safety Concerns Face Industry" (The Informationist: Analyst for the Health Care & Beauty Industries, Vol 27, No. 9 & 10, 2006)

Meyer's 1,100. page book, "Delivery System Handbook for Personal Care & Cosmetic Products: Technology, Applications & Formulations" was reviewed by The Newsletter of the National Association of Science Writers" (Spring 2006) and an extensive review appears in the International Federation of Society of Cosmetic Chemists Journal (V. 9, #3, October 2006, pg 259-261). He is also quoted in Inform, the Journal of the American Oil Chemists Society (Sept. 2006, Vol 17(9), pp 553-616) in an article on "Silicones in Fabric Care."

Publications & Patents

Books

"Delivery System Handbook for Personal Care and Cosmetic Products: Technology, Applications and Formulations", Edited by Rosen, M.R., Wm. Andrew Publishing, Norwich, New York (2005). A major contribution to this field containing 1,000 pages with over 40 companies and over 80 authors contributing from ten countries.

"Handbook of Rheology Modifiers- Practical Use and Application", Braun, D.B. and Rosen, M.R. (500 pp), Wm Andrew Publishers, Norwich, New York (1999).

Book Series Editor

“Personal Care, Cosmetic and Pharmaceutical Technology”. William Andrew Applied Science Publishers: Generating a series of books dedicated to transforming the content and communication (via book and internet) of the status of technology in the Personal Care and Pharmaceutical Industry.

Books in Series

- **“Delivery System Handbook for Personal Care and Cosmetic Products: Technology, Applications and Formulations”**, Meyer R. Rosen, Editor (2005)
- **“Global Regulatory Issues for the Cosmetic Industry, Volume 1”**, C.I. Betton, Editor (2007)
- **“Global Regulatory Issues for the Cosmetic Industry, Volume 2”**, Karl Lintner, Editor (2009)
- **“Nutritional Cosmetics”**, Aaron Tabor and Robert M. Blair, Editors, (2009)
- **“Cosmetic Applications of Laser and Light-Based Systems”**, Gurpreet Ahluwalia, Editor, (2009)
- **“Skin Aging Handbook, An Integrated Approach to Biochemistry and Product Development”**, Nava Dayan, Editor (2009)

Technical Articles

“New Ingredients for Styling & Color Retention: Addressing the Special Needs of Different Hair Types”, Global Cosmetic Industry, (June 2004)

“Mane Protection” (Hair Care), GCI Magazine, pg 52 (February 2004).

“Skin Care that Really Works”, Skin, Inc., pg. 48 (Dec. 2003)

“Super (Naturals) & Botanicals”, Part 2, Global Cosmetic Industry, pg. 37 (Nov. 2003)

“Super (Naturals) & Botanicals”, Part 1, Global Cosmetic Industry, pg. 53 (Sept. 2003)

“Skin Care that Really Works”, Global Cosmetic Industry, pg. 42 (May 2003).

“Cosmetic Counterculture”, Global Cosmetic Industry, pg. 46 (Feb. 2003).

“Special Delivery, Part III, Global Cosmetic Industry, pg. 54 (Sept. 2002).

“Global Beauty Roundtable”, Soap & Cosmetics, (Sept. 2002).

"Flame Retardants", Specialty Chemicals Magazine, England (Nov. 2001).

"Personal Care Delivery Systems", Part II, Global Cosmetic Industry (Oct. 2001).

"Personal Care Delivery Systems", Part I, Global Cosmetic Industry (Sept 2001).

"The Consulting Enterprise and the Certification Portal", *The Chemist* (July 2001).

"Silicone Wonders: The Silicone Elastomers", *Global Cosmetic Industry*, p. 48 (May 2001).

"In Search of Innovation...The Technology Transfer Conduit" HAPPI, Nov. 2000.

"Silicones for Personal Care: Technology Focus" *Global Cosmetic Industry*, May 2000.

"Personal Care Formulations Behind The Scenes" *Global Cosmetic Industry*, pg.42, May '99.

"Innovations for the Next Millennium" *Global Cosmetic Industry*, pg. 30, Dec. '99 "Hair Conditioning Silicones: At The Cutting Edge", *DCI Magazine*, Aug. '98.

"The Wondrous World of Silicones for Skin Care", *DCI Magazine*, Dec. '98.

"Weaving Out Opportunities" *Specialty Chemicals for Textiles 1998*, *Chemical Market Reporter-Focus Report*, Apr. 27 '98.

"Detergent Polymers", *Chemical Marketing Reporter- Focus Report*, Jan. 26 '98.

"Alkylphenol Ethoxylates & Alcohol Ethoxylates for Detergents" *ibid*, Jan. '98.

"Organic Polymers Taking Their Share", *ibid*, Oct. 13, '97.

"An Improved Method for Consolidation of Phosphatic Slimes" *Fluid Particle Separation Journal* 1 (2), 1988. Also in: "Flocculation and Dewatering" *Engineering Foundation*, NY, p.317-350 (1988).

"Carbinder Polymer 498: A New Organic Binder for Taconite Ore" presented at *Society of Mining Engineers Annual Meeting*, Preprint 88-47, Phoenix, AZ (1988).

"Analytical Method for Rating Flocculant Performance", *Society of Mining Engineers of AIME*, Preprint 80-2, Las Vegas, NV (1980).

"Characterization of Non-Newtonian Flow", *Polym. Plast.Technol. Eng.* 12(1), 1-42 (1979).

"Antifoams", *J. Society of Cosmetics. Chem.* 30,105, (1979).

"From Treating Solution to Filler Surface and Beyond--Life History of a Silane Coupling Agent", *J. of Coatings Technology* 50, (644), 70 (1978).

"Approximate Rheological Characterization of Casson Fluids: Template Method for the Brookfield Synchro-Lectric Viscometers", *J. of Coatings Technology*, .50 (643), 39 (1978).

"Hair Conditioning by a Chemical Comb", *Cosmetics and Toiletries*, Vol. 35, (Aug. 1977).

Estimation of Molecular Weight Error for Concentration Uncertainties in the Intrinsic Viscosity Determination", J. Appl. Polymer Sci., 16, 2435 (1975).

"A Rheogram Template for Power Law Fluids: Technique for Characterizing the Rheological Properties of Emulsions and Polymer Solutions", J. Coll. and Intf. Sci., 36(3), 350 (1971).

"Incipient Agglomerate Creaming in Silicone Emulsions: Prediction & Detection", J. Coll. & Intf. Sci. 36(1), 155 (1971).

"Viscosity Calculator Slide Rule for The Brookfield Synchro- Lectric Viscometer" (1971).

Technical Literature

Polyox® Water Soluble Resins: (1991-1992):

Polyox® poly (ethylene oxide) resin is a family of high molecular weight, water-soluble polymers, manufactured by the Dow Chemical Corporation and widely used in hundreds of applications for consumer and industrial products.

- Thermoplastic Processing
- Association Compounds
- Applications
- Dissolving Techniques
- Storage and Handling
- Environmental Impact
- Dust Properties
- The Basics
- Toxicological Properties

"More Solutions to Sticky Problems

A Guide to Getting More from Your Brookfield Viscometer", Brookfield Engineering Laboratories, Inc. (1984).

Technical Conference Presentations

Moderator and co-organizer for a Global Internet Webinar hosted by UBM International Media entitled, "Palm Oil, Orangutans and Sustainability: A Beauty Industry Call to Action", in which world famous Dr. Birute Mary Galdikas focused on Sustainability/Green issues from Borneo/Indonesia, 450 people/38 countries (July 2010).

Organizer and Moderator for HBA Annual International Safety, Regulatory and Certification Summit, 2006-present

Session Leader for Master Class, "New Developments in Delivery Systems", HBA Global Expo Technical Conference (Sept. 2006)

Conference Chair and Organizer for First Annual HBA Regulatory Summit: Prepare your Company for the Regulatory Revolution", HBA Global Beauty Expo, New York City (Sept. 2006). This all day conference was designed by Mr. Rosen to be a history-

making, pro-active initiative to provide thoughtful, educational insights into the movements, legislation, scientific technologies and impact of current and potential international regulatory changes.

Moderator for PCITX 4th Annual Technical Conference Series: High Performance Ingredients and Emerging Technology, April 18-19, 2006 (New York City).

Moderator for PCITX 3rd Annual Technical Conference: “New High Performance Ingredients and Technology III”, April 26-27, 2005 (New York City)

Moderator for “New Product Development Symposium”, New Developments in Skin Care and Exciting New Developments”, HBA Global Expo 2004/PCITX (Sept 29, 2004).

Moderator for “New Developments in Personal Care”, HBA Global Expo 2004/PCITX (Sept 28, 2004).

Moderator for “New Developments in Skin Care”, HBA Global Expo 2004/PCITX (Sept 28, 2004).

Moderator for “Exciting New Developments”, HBA Global Expo 2004/PCITX (Sept 30, 2004).

Moderator for “Latest Developments in Ingredients”. Natural Personal Care Products and Global Beauty Conference, Chicago, (June 2004).

Moderator for High Performance Ingredients Conference, New York City (April 13-14, 2004)

Moderator for HBA Global Expo 2003, “New Developments in Natural Ingredients and Products- Part 2” (Oct 1, 2003).

Moderator for HBA Global Expo 2003, “New Developments in Natural Ingredients and Products-Part 1” (Oct 1, 2003).

Moderator for PCITX Conference on High Performance Ingredients, High Impact Color & High Function Naturals, Javits Center, New York City, (April, 2004).

Co-organizer, Colloid and Surface Science Symposium, 226th National Meeting, American Chemical Society, New York City, (Sept. 2003).

- Session Chair: “Colloid and Surface Chemistry of Personal Care Products and Pharmaceutical Delivery Systems”.

Co-organizer, “Industrial Problems and Technology Transfer” Symposium, 226th National Meeting, American Chemical Society, New York City, (Sept. 2003).

- Session Chair: “Colloid and Surface Chemistry of Personal Care Products and Pharmaceutical Delivery Systems”.

Technical Advisor, Second Annual Global Beauty Congress, Philadelphia, (June 2003).

Session Leader, High Performance Ingredients World Congress Javits Center, New York City, (April, 2003).

“Controlled Release Systems in Cosmetic & Personal Care”- Master Class Trainer at Product Development Conference, HBA 2002 Global Expo, Javits Center, New York City (Oct. 2002).

Session Leader, “Exciting New Developments: New Technology That You Can Use”, at Product Development Conference, HBA 2002 Global Expo, Javits Center, New York City (Oct. 2002).

Session Leader, “Natural Products in Personal Care”- A Professionally Facilitated Forum, Product Development Conference, HBA 2002 Global Expo, Javits Center, New York City (Oct. 2002).

Co-organizer, “Industrial Problems and the Role of Colloid and Surface Science Theory” Symposium, 224th National Meeting, American Chemical Society, Boston, MA (Aug. 2002).

- Session Chair: “Research Opportunities at the Corporate-Academic Interface”.

Technical Advisor to the Global Beauty Congress, Chicago, Ill., June 2002.

Co-organizer, “Surfactant Science and Technology in Industry”, Symposium, 223rd National Meeting, American Chemical Society, Orlando, FL. (April 2002).

- Session Chair: “Problem Solving at the Industrial Academic Interface”.

“Controlled Release Technology”. Presented at National Meeting, American Chemical Society, Boston, MA (Aug 2002). Rosen, M.R. and Shefer, S.

“Turning Fundamentals into Useful Information for both Commercial and Academic Interests: A Professionally Facilitated Forum”, Presented at National Meeting, American Chemical Society, Boston, MA (Aug 2002).

“Problem Solving at the Industrial-Academic Interface: A Professionally facilitated Forum”, Presented at the National Meeting, American Chemical Society, Orlando, FL (April 2002)

Technical Advisor to HBA Product Development Conference, Javits Center, New York City (June 2001).

- Seminar Leader, “New Developments in Personal Care”.

Session Leader, Product Development Conference, Career Building, "Tutorial IV", Product Development Conference, HBA Global Exposition, Javits Center, New York City (June 2001).

"The Consulting Enterprise and the Certification Portal", Presented at the National Meeting of the American Chemical Society, San Diego, CA (April 2001).

"Transition Chemist", Presidential Symposium, American Chemical Society, National Meeting, San Diego, CA (April 2001).

Symposium Organizer, "Consulting in the Next Millenium", ChemShow 2000, Jacob Javits Center, New York City (Oct. 2002)

Seminar Leader, "Exciting New Science Developments", Product Development Conference, HBA Global Exposition, Javits Center, New York City (June 2000).

Seminar Leader, "Personal Care III", Scientific Conference, HBA Global Expo., Javits Center, New York City (June 1999).

"Practical Rheology- A Thinking Protocol for the Personal Care Chemist", HBA Global Expo, Javits Center, New York City (June 1999).

"Acknowledgement of Prof. Frederick Eirich on the occasion of his 90th birthday", Chemists Club, (October 1995).

"An Improved Method for Consolidation of Phosphatic Slimes". Presented at the Engineering Foundation Conference, Florida (1988).

"Carbinder Polymer 498: A New Organic Binder for Taconite Ore". Presented at Society of Mining Engineers Annual Meeting, Phoenix, AZ (1988).

"An Introduction to Rheological Characterization of Non-Newtonian Fluids and Some Practical Applications", 17th Mid-Atlantic Regional American Chemical Society (April 1983).

"Principles of Applied Rheology", National Meeting, Society of Cosmetic Chemists (Dec.1982).

"Characterization of Non-Newtonian Fluids: An Industrial Viewpoint", Presented at "Applied Rheology for Industrial Chemists", Kent State University (June 1982).

"Analytical Method for Rating Flocculant Performance", Society of Mining Engineers of AIME, Presented at AIME Annual Meeting, Las Vegas, NV (1980).

Continuing Professional Education

“Skin Science for the Cosmetic Chemist”, New York Society of Cosmetic Chemists, (Nov. 17-18, 2004)

“Conference on Applied Hair Science”, TRI, Princeton, New Jersey (June 9-10, 2004).

Patents

| Year | Description | Patent Number |
|------|--|-------------------------------------|
| 2008 | Shaving Aid Delivery System for Use With Wet Shave Razors | US 2008/0216321 A1 (Sept. 11, 2008) |
| 2005 | Fumed Silica Embolic Compositions | 20050025707 |
| 1997 | Design of Reflex-Correspondence Tool | U.S. D 382, 342 |
| 1997 | Design of Alternative Reflex-Correspondence Tool. | U.S. D 379, 227 |
| 1993 | Removal of Residual Ethylene oxide from Poly (ethylene oxide) | U.S. 5,216,122 |
| 1992 | Slurries of Poly (ethylene oxide) | Patent pending |
| 1989 | Process for agglomerating ore concentrate utilizing clay and dispersions of polymer binders or dry powder binders. | U.S. 4,802,914 |
| 1988 | Process for agglomerating ore concentrate utilizing clay and dispersions of polymer binders or dry powder binders. | U.S. 4,767,449 |
| 1986 | Process for producing a polymer water-in-oil emulsion | U.S. 4,618,647 |
| 1986 | High molecular weight water- soluble polymer and flocculating method. | U.S. 4,599,390 |
| 1985 | Process for flocculation of phosphatic slimes | U.S. 4,555,346 |
| 1985 | High molecular weight water soluble polymers | U.S. 4,529,782 |
| 1984 | Polymer water-in-oil emulsions | U.S. 4,452,940 |
| 1982 | Rapidly dissolved water soluble polymer composition | U.S. 4,325,861 |
| 1979 | Process for forming ceramic bodies employing aqueous lubricants | U.S. 4,171,337 |
| 1978 | Non-aqueous antifoam compositions | U.S. 4,101,442 |
| 1978 | Transient antifoam composition | U.S. 4,101,443 |
| 1978 | Self-dispersible antifoam compositions | U.S. 4,076,648 |
| 1977 | Shaped article for conditioning hair. A blend of water soluble & insoluble polymers with inter-penetrating networks. | U.S. 4,018,729 |
| 1976 | Shaped article for conditioning hair fabricated quaternary nitrogen-containing cellulose ether. | U.S. 3,992,336 |
| 1972 | Method extinguishing fires & compositions, comprising cationic silicone surfactants. | U.S. 3,677,347 |
| 1971 | Method extinguishing liquid hydrocarbon fires & compositions therefore comprising silicone surfactants. | U.S. 3,621,917 |

7-23-10