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Meyer R. Rosen

CFEI, CPC, CChE, FAIC, FRSC, DABFET

FORENSIC LITIGATION EXPERT

PRODUCTS LIABILITY; PERSONAL INJURY

INTELLECTUAL PROPERTY

Experienced, forensic expert witness for plaintiff or defense; both Federal and State. Accepting cases including, but not limited to: fires and explosions, hazardous chemicals, specialty chemicals, chemical burns and toxic exposure. Consumer and Industrial products and processes. Nationally certified fire and explosion investigator (CFEI), professional chemist (CPC) and chemical engineer (CChE) with extensive credentials in both industrial and academic fields.

CONSULTING CHEMIST & CHEMICAL ENGINEER

Intellectual Property & Trade Secret Litigation; Chemical Technology Assessment; Specialty Chemicals, Cosmetic Science and Industrial Product and Process Development. Creation of new applications. Technical Marketing/Editing/Journalist for Specialty Chemicals and Ingredients. Over 20 Patents. International Experience.

Fellow: American College of Forensic Examiners, American Institute of Chemists,

American Institute of Chemical Engineers and Royal Society of Chemistry (London)

PUBLICATIONS

Editor-in-Chief: Eurocosmetics Magazine (Germany);

Editor-in-Chief of Harry's Cosmeticology, 9th Edition: http://www.chemical-publishing.com/category_s/44.htm

Lead Author, Editor, and Series Editor for publishers including Elsevier Publishing; Chief Scientific Advisor for HBA Global Expo and Director of Technical Conferences; Organizer for International Safety, Regulatory and Certification Programs.

Work: 516-922-2167 Mobile: 516-459-2050

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Credentials

FACFE:	Fellow: American College of Forensic Examiners
FRSC	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 (Advanced Training); National Association of Fire Investigators
DABFE:	Diplomate: American Board of Forensic Examiners
DABFET:	Diplomate: American Board of Forensic Engineering & Technology

PROFESSIONAL BACKGROUND

Mr. Rosen has over 40 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, household, medical and industrial products. Meyer is experienced in products liability, personal injury, intellectual property and trade secret cases. These include, but are not limited to: consumer, household and cosmetic products as well as industrial products and processes. **He has worked with numerous law firms and insurance companies in both plaintiff and defense cases as a consulting and testifying expert in both state and Federal courts.**

Meyer's background includes: fires, explosions, accident reconstruction, hazardous chemicals, toxic exposures, chemical exposures, chemical burns, uncovering safer alternatives and training in courtroom procedures. He also has advanced training as a nationally certified fire and explosion investigator and is skilled at determining the origin

and cause of fires, explosions and arson relating to flammable liquids, gases & solids as well as aerosol fires. Mr. Rosen is also experienced in products liability issues and complex litigation relative to safety in design, formulation, packaging and handling, warnings, instructions and labels. He is also experienced in intellectual property and trade secret matters.

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.

Mr. Rosen is a former member of the Fire Science & Technology Educators Section of the National Fire Protection Association and a Senior Member 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. His experience and training includes NFPA 921, the peer reviewed, accepted scientific standard of the fire protection industry. Mr. Rosen has also taken several programs in Advanced Training in the Fire, Arson and Explosion Investigation Science & Technology Program co-sponsored by the National Fire Protection Association and the National Association of Fire Investigators (2005, 2011, 2016).

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, a Board Certified Forensic Examiner, 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 past member of the Executive Advisory Board of the Knovel Corporation, where he was 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). Mr. Rosen was selected as a Vaaler Awards judge for 2003 by Chemical Processing Magazine. The awards competition honors products that improved operations or lowered costs for the chemical processing industry.

Meyer serves as Editor-in-Chief for EuroCosmetics Magazine (Germany) and is Editor-in-Chief of the 2,600 page book on the cosmetic industry, *Harry's Cosmeticology*, 9th Edition http://www.chemical-publishing.com/category_s/44.htm. Meyer served for six years as Chief Scientific Advisor & Director of Technical Programming for United Business Media's HBA Global Technical Conference and Expo, the largest health and beauty conference & expo in the United States. He has been the Chairman and Organizer of the Annual HBA Global Expo Safety, Regulatory and Certification Summit since 2006- a series of major international technical conferences covering the impact of global Regulations on the personal care and cosmetic industry. Mr. Rosen also serves as Book Series Editor for Elsevier Publishing's Personal Care and Cosmetic Technology Series. Meyer is a member of the Center for Dermal Research at Rutgers, the State University of New Jersey.

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.

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, , Chemistry, Chemical Engineering, Physical Chemistry & Material Properties, 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 (7/18-7/21...2016).
- National Fire, Arson & Explosion Investigation Training Program, Sarasota, FL (8/2-8/4...2011).
- National Fire, Arson & Explosion Investigation Training Program, Sarasota, FL (7/23-7/25...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)
- National Advanced Fire, Arson and Explosion Investigation Training Program (2011)
- New York Society of Cosmetic Chemists Rheology Symposium, Liberty Science Center, March 27, 2012
- The International Advanced Fire Training Program: 921 & 1033- Putting it Together, July 18-21, 2016, Tampa, Florida

Professional Experience

1992-Present

Interactive Consulting, Inc.

East Norwich, N.Y. 11732

Position: President

Mr. Rosen serves as expert witness for attorneys and insurance companies (both plaintiff & defense) in chemistry and chemical engineering technology and their application to consumer and industrial products relative to product development, safety and intellectual property issues. His expertise includes, but is not limited to: fires, explosions, hazardous chemicals, chemical burns and toxic exposures.

Meyer also consults for the cosmetic, personal care, pharmaceutical and specialty chemical areas. These include, for example, 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. He conducts corporate training in mind map technology, runs ideation/brainstorming sessions, does technical marketing, customized technology and market research, technology transfer and professional technical writing/editing. Mr. Rosen served as Chief Scientific Advisor and Director of Technical Symposia for United Business Media's HBA Global Expo, and was responsible for the design and organization of all technical conference programs for six years which included speaker recruitment and assessment, evaluation and editing of technical presentations of approximately 100 speakers each year and management of the technical conference program which drew approximately 1,000 attendees each year.

Meyer has also been the Designer and Organizer of HBA's Annual International Safety, Regulatory and Certification Summit Conference Programs. Mr. Rosen served on the Executive Advisory Board of the Knovel Corporation where he was responsible for providing content guidance for hundreds of corporations, the U.S. Patent Office and the Royal Society of Chemistry (London).

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).

Developed aqueous lubricant to replace diesel fuel used in manufacture of bricks. Conducted research on water-soluble polymers as lubricants.

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 & Achievements

- 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 / Former Member Noise Committee
- American Institute of Chemists, (Former Director)
- American Society of Safety Engineers (Former Member)
- Assoc. of Consulting Chemists/Chemical Engineers: Executive Director,
Past V.P.

- Center for Dermal Research at Rutgers, the State University of New Jersey.
- National Association of Fire Investigators
- National Fire Protection Association, Senior Member
Member, Fire Science & Technology • Educators Section;
Former member Fire Fighting Foam Subcommittee (Standards -making body).
- Société de Chimie Industrielle, American Section (Former Member)
- Society of Cosmetic Chemists, National
- New York Society of Cosmetic Chemists
- Controlled Release Society (Consumer & Diversified Product 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

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
Journal of Cosmetic Science, Official Journal of the Society of Cosmetic Chemists

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

AFFILIATIONS

National Association of Fire Investigators

Editor-In-Chief: Harry's Cosmeticology, 9th Ed., Chemical Publishing Company (2015)

Editor-in-Chief: North and Latin America- EuroCosmetics Magazine (Germany)

Center for Dermal Research at Rutgers, The State University of New Jersey

NEWSMEDIA INTERVIEWS & QUOTES

Mr. Rosen has been interviewed and quoted in the press by a variety of chemical industry publications. These include: HAPPI Magazine (Nov. 2015: http://www.happi.com/issues/2015-11-01/view_features/just-wild-about-harrys); J. of Cosmetic Science, October 2015: Review of Harry's Cosmeticology, 9th Ed.; CosmeticDesign-USA: Interview on the 2,600 page, 3 volume Harry's Cosmeticology, 9th Ed. with contributions from over 10 global experts; 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. Interview with CosmeticsDesign.com (Europe & U.S.) on "Insightful Industry Leaders Panel held for first time at HBA Global Expo, Aug.18, 2010.

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

Books

"Harry's Cosmeticology, 9th Ed., (2015). Editor-in-Chief of the International, widest selling book and eBook for the Cosmetic and Personal Care Industry in the past sixty years. Three volumes; 2,600. pages with contributions from more than 150 globaexperts. http://www.chemical-publishing.com/category_s/44.htm

"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 & International Technical Magazine Editor

Editor-in-Chief: North and Latin America- EuroCosmetics Magazine (Germany)

BOOK SERIES 1; EDITOR: Harry's Cosmeticology, 9th Ed. Focus Book Series

Chemical Publishing Company, generating a series of Focus Books drawn from the 3 volume, 2,600 page Harry's Cosmeticology textbook.

- **"Cosmetic Industry Approaches to Epigenetics and Molecular Biology"**, Chemical Publishing Company (Sept. 2015)
- **"Achieving Global Cosmetic Market Access: Issues and Approaches"**; Chemical Publishing Company (Sept. 2015)
- **"Sustainability and Eco-Responsibility"**: Co-edited by Alban Muller and Meyer R. Rosen, Chemical Publishing Company (Nov. 2015)

- **“Art and Science of formulating Cosmetic Products”**, Chemical Publishing Company, (Jan. 2016)

BOOK SERIES 2; EDITOR: “Personal Care, Cosmetic & Pharmaceutical Technology”

Elsevier Publishing (Amsterdam), 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.

- **“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 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.

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|----------------------------|------------------------|
| • Thermoplastic Processing | • Storage and Handling |
| • Association Compounds | • Environmental Impact |
| • Applications | • Dust Properties |
| • Dissolving Techniques | • 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: “Entering the Era of Vibrational Cosmetics: The Next Generation Approach to Mind-Body & Skin Regeneration”

In-Cosmetics, North America, New York City, Javits Center, Oct 17-18 2018

Moderator: “The Age-Defying Paradigm: Newest Thinking, Concepts & Practical Approaches - Conferences - in-cosmetics North America <http://northamerica.in-cosmetics.com/en/Sessions/46328/The-age-defying-paradigm-newest-thinking-concepts-practical-approaches#.WYcvXOqJUI8.twitter>; October 2017

Moderator, “**3D Printing**” Panel, HBA Global Technical Conference, June 2015

Moderator, “**Anti-Aging**” Panel, HBA Global Technical Conference, June 2013

Moderator, “**Sophisticated Technology and Techniques for Enhancing Beauty & Health of Skin and Nails**”, United Business Media’s HBA Global Technical Conference, June 2012.

Co- Moderator, with Dr. Zoe Draelos, M.D. at the HBA Global Expo (June 2011) for “The **“Dermatology- Cosmeceutical Interface: A Provocative Inquiry”** Panel

Co- Moderator, with Simon Pitman, Senior Editor, Design News Media: Cosmetic Design Magazine (Europe), at the HBA Global Expo (June 2011) for the “Executive Leadership Panel: **Generating the Future in the Skin Anti-Aging Category**”

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, 2006-2008

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

Society of Cosmetic Chemists 72nd Annual Scientific Meeting & Technology Showcase, Dec 11-12, 2018. Sheraton Times Square, New York City

In-Cosmetics ® North America, 2018, Jacob Javits Center, New York City (Moderator; Attendee)

In-Cosmetics ® North America, 2017, Jacob Javits Center, New York City (Moderator: Attendee)

Society of Cosmetic Chemists 71st Annual Scientific Meeting & Technology Showcase, Dec 11-12, 2017. The Westin New York at Times Square

In-Cosmetics ® North America, Sept. 7-8, 2016, New York City

The International Advanced Fire Training Program: 921 & 1033- Putting it Together,
July 18-21, 2016, Tampa, Florida

HAPPI Anti-Aging Conference, Hyatt Regency, New Brunswick, N.J,
(Sept. 20-11, 2016)

Society of Cosmetic Chemists, 70th Annual Scientific Meeting and Technology Showcase, Dec.
10-11, 2015, New York, N.Y.

HAPPI Anti-Aging Conference, Hyatt Regency, New Brunswick, N.J,
(Sept. 10-11, 2015)

HAPPI Anti-Aging Conference, Hyatt Regency, New Brunswick, N.J,
(Sept. 16-17, 2014)

Antioxidants Symposium, Society of Cosmetic Chemists, New York Academy of Sciences,
World Trade Center, June 5, 2014, New York

Happi Magazine's Fourth Annual Anti-Aging Conference, Oct. 29-30, 2013, New Brunswick,
New Jersey

Happi Magazine's First Annual Anti-Aging Conference, Sept. 25, 2012, New Brunswick, New
Jersey

National Advanced Fire, Arson & Explosion Investigation Training Program”, Jointly held with The National Association of Fire Investigators and The National Fire Protection Association (Aug. 2-4, 2011)

New York Society of Cosmetic Chemists Suppliers Day, May 10-11, 2011, Edison, New Jersey

“Cosmeceutical Symposium” and “Delivery Systems for Active Ingredients”, 13th Annual SupplySide East Conference, May 2-4, 2011 (Secaucus, New Jersey).

“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).

Technical Articles

“Regulatory Requirements, Intellectual Property and Achieving Global Market Success for Cosmetic Products”, Ruud Overbeek and Meyer R. Rosen, Harry’s Cosmeticology, 9th Ed. Chemical Publishing, Inc. pg. 70- pg. 159, (July 2015). www.harryscosmeticology.com

“Silicones in Personal Care Products: Polydimethyl Siloxanes, Organosilicone Polymers & Copolymers”. Anthony J. O’Lenick, Jr., Thomas O’Lenick, Meyer R. Rosen, Harry’s Cosmeticology, 9th Ed. pg 810-pg.866, Chemical Publishing, Inc. (July 2015). www.harryscosmeticology.com

“Cosmetic Manufacturing Processes”, Bruce Victor, Meyer R. Rosen, et. al. Part 13.1, Harry’s Cosmeticology, 9th Ed., pg. 2,081- pg. 2,186, Chemical Publishing, Inc. (July 2015). www.harryscosmeticology.com

“Improving Cosmetic Formulation Quality Through Innovative Processing Technology: Preparation of MicroDroplet/Particle Master Batches through Innovative Compounding Techniques”, Richard Holl, P.E., Dipl.-Ing and Meyer R. Rosen, EuroCosmetics Magazine (July/August 2012)

“Intelligent Delivery Systems for Enhancing the Performance of Active Ingredients in Skin Care Formulations”, Meyer R. Rosen and Ameann DeJohn, EuroCosmetics Magazine (July 2011)

“Your HBA Educational Roadmap to Technical and Product Development Success”, Show News, HBA Global Technical Conference (June 2011)

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

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

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

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

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

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

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"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.

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"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).

Patents

Year	Description	Patent Number
2010	Shaving Aid Delivery System for Use with Wet Shave Razors	US2008003018
2008	Shaving Aid Delivery System for Use with Wet Shave Razors	US 2008/0216321 A1 (Sept. 11, 2008)
2005	Fumed Silica Embolic Compositions	20050025707
2003	Fumed Silica Embolic Compositions	WO2004075989(A1) 2004-09-10
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

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Meyer R. Rosen

CPC, CChE, FAIC, FRSC, DABFET

CONSULTING CHEMIST & CHEMICAL ENGINEER

Chemical Technology Assessment; Intellectual Property; Cosmetic and Industrial Product Development; Creation of new applications and Technical Marketing/Editing for Specialty Chemicals (over 20 Patents); International experience.

Fellow: American Institute of Chemistry & Royal Society of Chemistry (London)

PUBLICATIONS

Editor-in-Chief: Eurocosmetics Magazine (Germany);

Editor-in-Chief of Harry's Cosmeticology, 9th Edition: http://www.chemical-publishing.com/category_s/44.htm

Lead Author, Editor, and Series Editor for Elsevier Publishing; Chief Scientific Advisor for HBA Global Expo and Director of Technical Conferences; Organizer for International Safety, Regulatory and Certification Programs.

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CONSULTING SERVICES

IDEATION:

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TECHNICAL MARKETING

- Technical Writing
- Professional Technical Content Editing
- Event Planning & Meeting Facilitation

Meyer R. Rosen is Founder & President of Interactive Consulting, Inc. (ICI) (www.chemicalconsult.com). His company is a technology-based consulting firm committed to Creating & Facilitating breakthroughs in market, product & process development. He also provides both consulting and testifying services in support of attorneys and insurance companies in: Intellectual Property, trade secret issues and product liability/personal injury case litigation.

Mr. Rosen is a Thought-Leader and expert in the field of Specialty Chemicals and both their multi-industry technical and marketing applications. These include, but are not limited to: surfactants, polymers, chemical fluids, and organosilicones as well as their physical and chemical behavior. Mr. Rosen also specializes in applied rheology (fluid flow) and applied surface chemistry. He has also conducted advanced training in the custom preparation of Mind-Maps® and their direct application in knowledge- mapping and patent analysis.

Meyer has extensive experience in the practical application of fundamental principles to a wide variety of market development & technological issues associated with the Specialty Chemicals & Allied Industries. For more than thirty- five years, Mr. Rosen has consulted for hundreds of corporations involved in the development, optimization, patenting, marketing and quality control of new and existing products and processes.

CREDENTIALS & AFFILIATIONS

Mr. Rosen is a Chartered Chemist and Fellow of the Royal Society of Chemistry (London); a Fellow of the American Institute of Chemists and both a Certified Professional Chemist and Certified Professional Chemical Engineer (National Certification Commission in Chemistry and Chemical Engineering). He served as Chief Scientific Advisor to United Business Media Technical Conferences and Director of United Business Media Technical Conference Planning for six years.

Meyer was voted the “most creative, innovative and productive member of a nationally selected group of 25 top scientists and technologists during a three- day Ideation program for the 3M Company. He was selected as a Vaaler Awards judge for 2003 by Chemical Processing Magazine. The awards competition honors products that improved operations or lowered costs for the chemical processing industry.

Mr. Rosen has also served as Editorial Board Member of the Knovel Corporation which provides unique interactive access to scientific data to over 600 subscribing institutions and twenty content collections. He is a member of the New York Society of Cosmetic Chemists and Advisor to the Executive Director of the National Society of Cosmetic Chemists. Meyer is also a member of the American Institute of Chemical Engineers, a former Director of the American Institute of Chemists, past Vice President of the Association of Consulting Chemists and has served on the Scientific Advisory Board of Supply Side West/East: Virgo Publications. He is also the Founder, Organizer and co-moderator for HBA’s Annual International Safety, Regulatory and Certification Symposia.

Meyer is a past Vice President of the Association of Consulting Chemists and Chemical Engineers and served 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. He has advanced training as a nationally certified fire and explosion investigator (CFEI): 2001,2011,2016.

• **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

- 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

Peer Reviewer: Professional Journals

Journal of Chemical Education

Journal of Cosmetic Science, Official Journal of the Society of Cosmetic Chemists

The Chemist

Journal of Testing and Evaluation (American Society of Testing Materials-ASTM)

Cosmetics & Toiletries

Journal of Controlled Release Society

EuroCosmetics Magazine (Germany)

Book Editor- in- Chief (Chemical Publishing Company)

- **“Harry’s Cosmeticology, 9th Ed, (2015)**. The most popular book in the cosmetic and personal care industry over the past 60 years. This encyclopedic book surveys, in depth, the technology, science, marketing, manufacturing and ingredients related to the beauty industry. It is 2,600 pages, in three volumes, and has contributions from over 150 global author experts. Also available in a variety of shorter Focus Books on individual topics from Harry’s Cosmeticology. http://www.chemical-publishing.com/category_s/44.htm

Book Editor (Elsevier Publishing)

- **“Delivery System Handbook for Personal Care and Cosmetic Products: Technology, Applications and Formulations”**, Meyer R. Rosen, Editor, 1100 pages (2005). This book captures over forty different delivery system approaches for use in the cosmetic and pharmaceutical industries. It was the first of its kind to recognize the emerging new science of Delivery Systems.

Book Co-Author (Elsevier Publishing)

- **“Rheology Modifier Handbook - Practical Use and Application”**. The 500 page Handbook describes the flow behavior of materials ranging from solids to fluids. It also includes extensive information on 20 different types of rheology modifiers manufactured by 26 worldwide companies. These materials range from synthetic polymers such as poly (ethylene oxide) to natural gums and resins such as water-soluble polysaccharides.

BOOK SERIES 1; EDITOR: Harry’s Cosmeticology, 9th Ed. Focus Book Series

Chemical Publishing Company, generating a series of Focus Books drawn from the 3 volume, 2,600 page Harry’s Cosmeticology textbook.

- **“Cosmetic Industry Approaches to Epigenetics and Molecular Biology”**, Chemical Publishing Company (Sept. 2015)

- **“Achieving Global Cosmetic Market Access: Issues and Approaches”**; Chemical Publishing Company (Sept. 2015)

- **“Sustainability and Eco-Responsibility**: Co-edited by Alban Muller and Meyer R. Rosen, Chemical Publishing Company (Nov. 2015)

- **“Art and Science of formulating Cosmetic Products”**, Chemical Publishing Company, (Jan. 2016)

BOOK SERIES 2; EDITOR: “Personal Care, Cosmetic & Pharmaceutical Technology”

Elsevier Publishing (Amsterdam), 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 include:

- “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)

BOOK CHAPTERS

“Regulatory Requirements, intellectual Property and Achieving Global Market Success for Cosmetic Products”, Ruud Overbeek and Meyer R. Rosen (co-editors), Part 2.1, Harry’s Cosmeticology, 9th Ed., (2015). www.harrycosmeticology.com

“Silicones in Personal Care Products: Polydimethyl Siloxanes, Organosilicone Polymers & Copolymers”, Anthony J. O’Lenick, Jr. Thomas O’Lenick PhD and Meyer R. Rosen, (co-authors), **Part 4.2.3.1**, Harry’s Cosmeticology, 9th Ed., (2015). www.harrycosmeticology.com

“Cosmetic Manufacturing Processes”, Donald S. Buell, Rose Khosravani, Doug J. Melenkevitz, Bruce L. Victor, David P. Yacko & Meyer R. Rosen, Part 13.1, Harry’s Cosmeticology, 9th Ed., (2015). www.harrycosmeticology.com

TECHNICAL MAGAZINE EDITOR

Editor-in-Chief: EuroCosmetics Magazine (Germany)

TECHNICAL ARTICLES (OVERVIEW)

Mr. Rosen has authored over forty articles in the technical and scientific literature, including, but not limited to areas such as: Polymers for Water Treatment, Specialty Chemicals for Textiles, Detergent Polymers, Surfactants used in the Detergent Industry, Specialty Chemicals

for Textiles and a Review of the Non-Wovens Industry. He has also written articles on applied rheology, mathematical characterization of shear thinning and other types of rheological behavior, surface and interfacial chemistry, wetting and spreading phenomena, organosilicones, delivery systems and flame retardants

Meyer has published numerous technical advertising literature pieces that have had worldwide circulation. This includes most of the Union Carbide Corporation's literature on POLYOX poly(ethylene oxide) Water Soluble Polymers and rheological literature for Brookfield Engineering Laboratories, a major manufacturer of rheological testing equipment.

EDUCATION

<u>Year</u>	<u>College/University</u>	<u>Degree</u>
1966	Polytechnic Institute of Brooklyn	MS, Chemical Engineering
1964	Polytechnic Institute of Brooklyn	BS, Chemical Engineering

CONTINUING PROFESSIONAL EDUCATION (Partial List)

In-Cosmetics, North America, New York City, Javits Center, Oct 17-18, 2018
Moderator: "Entering the Era of Vibrational Cosmetics: The Next Generation Approach to Mind-Body & Skin Regeneration"

Society of Cosmetic Chemists, 71st Annual Scientific Meeting & Technology Showcase, Dec. 11-12, 2017, The Westin New York at Times Square

Moderator: "The Age-Defying Paradigm: Newest Thinking, Concepts & Practical Approaches - Conferences - In-Cosmetics North America <http://northamerica.in-cosmetics.com/en/Sessions/46328/The-age-defying-paradigm-newest-thinking-concepts-practical-approaches#.WYcvXOqJUI8.twitter>; October 2017

In-Cosmetics, North America #2

October 11-12, 2017

In-Cosmetics ®, North America #1

Sept 7-8, 2016, New York City

HAPPI Anti-Aging Conference, Hyatt Regency, New Brunswick, N.J,
(Sept. 20-11, 2016)

HAPPI Anti-Aging Conference, Hyatt Regency, New Brunswick, N.J., (Sept. 16-17, 2015)

HAPPI Anti-Aging Conference, Hyatt Regency, New Brunswick, N.
J., (Sept. 16-17, 2014)

Antioxidant Symposium, Society of Cosmetic Chemists, June 5, 2014

20th Anniversary Technical Conference United Business Media (HBA Global Expo
and Conference, June 19-21, 2012.

New York Society of Cosmetic Chemists Rheology Symposium, March 27, 2012, Liberty Science
Center, Jersey City, N.J.

Second Annual Technology Transfer Conference, New York Society of Cosmetic Chemists, Nov
9, 2011, West Orange, New Jersey

New York Society of Cosmetic Chemists Suppliers Day, May 10-11, 2011, Edison, New Jersey

“Cosmeceutical Symposium” and “Delivery Systems for Active Ingredients”, 13th Annual
SupplySideEast Conference, May 2-4, 2011 (Secaucus, New Jersey).

“Cosmetic Technology Transfer Conference”, New York Society of Cosmetic Chemists, October
20, 2010, Woodbridge, New Jersey

“Colloids and Surfaces, Nanoparticles, and Green Technology 2009”, November 17-19, 2009,
Javits Convention Center, New York City

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

Skin Science for the Cosmetic Chemist (New York Society of Cosmetic Chemistry) (November 17-18, 2004).

Conference on Applied Hair Science, TRI, Princeton, New Jersey (June 2004)

AREAS OF TECHNOLOGY EXPERTISE

ORGANOSILICONES: SURFACTANTS/WETTING AGENTS, EMULSIONS, FOAMS, GELS, ANTIFOAMS, SILANE COUPLING AGENTS

Meyer has fifteen years research and development experience in the field of organosilicone chemistry. He is knowledgeable in the theory and practical application of surface-active agents including organic, silicone and fluorocarbon types. Mr. Rosen is skilled in the art and science of stabilizing silicone emulsions of both the oil-in-water and water-in oil types. Mr. Rosen has developed methods for measuring and improving the stability of silicone emulsions and was involved in the optimization of emulsification processes for oil-in-water silicone emulsions and water-in oil poly (acrylamide) emulsions. He has authored papers on the prediction and detection of incipient agglomerate creaming in emulsions and has successfully used the fundamentals of non-Newtonian rheological behavior to predict silicone emulsion instability. One of Mr. Rosen’s rheological techniques for characterizing shear thinning behavior has been adopted as an ASTM (American Society of Testing Materials) standard.

Meyer has been involved in the optimization, stabilization and development of amino-based silicone-based water-in-oil emulsions for car polish applications. He has developed silicone emulsions for aerosol spray starch applications. Meyer has consulted on the effect of organosilicone surfactants as flame-retardants for polyurethane foam and conducted research on improving fuel combustion efficiency by altering atomization characteristics using organosilicone copolymers. He was also involved in the development of a process to apply curing polyurethane foam onto porous backing materials.

He has conducted applied research in many novel applications of both organosilicone and organic surface-active agents. For five years, Meyer was responsible for generating new product ideas and guided several Ph.D. synthesis chemists in the design of new organosilicone surfactants and polymers based on correlations he developed between structure and performance. During this period he developed organosilicone surface-active agents that improved droplet atomization and combustion efficiency of diesel fuel and # 6 oil.

Mr. Rosen has done extensive research and development in the area of both industrial and food grade antifoams. This work has included the development of new silicone antifoam products as well as simple test methods for their detection and efficacy. When faced with a new and unstable silicone antifoam product, Meyer invented the concept of "transient" antifoam, which takes advantage of the inherent antifoam instability to accelerate high-speed packaging of foaming fluids. He holds patents on "Non-Aqueous antifoam compositions", "Transient antifoams" and "Self-dispersible antifoam compositions. Mr. Rosen is fully familiar with the process technology for antifoam manufacture and the major silicone antifoam producers. Meyer has published on the area of antifoams in the J. Soc. of Cosmetic Chemistry

Meyer has studied and developed AFFF aqueous foams based on novel organosilicone copolymers. These are widely used today for extinguishing hydrocarbon fires associated with civilian and military aircraft fires. This technology requires knowledge of fundamentals associated with the spreading of one fluid upon another. He holds two patents on fire extinguishing foams: "Method of extinguishing fires and composition containing cationic silicone surfactants" and "Method of extinguishing liquid hydrocarbon fires and compositions therefore comprising silicone surfactants".

Mr. Rosen has been an Adjunct Professor at Westchester Community College and trained senior firefighters of New York City and surrounding cities in the chemistry and physics of fire science. He has developed methods of measuring and improving the stability of aqueous foams. Meyer is a member of the National Fire Protection Association and a former member of the standards-making Fire Fighting Foam Subcommittee. He is also a member of the ASTM Committee on Fire Extinguishing Agents.

Meyer has published a major review of Silane Coupling Agent Technology: "From Treating Solution to Filler Surface and Beyond - The Life History of a Silane Coupling Agent and has extensively studied methods of altering the surface and water repellency of materials such as clays and silica's of all types. He has also authored an article on silicones for hair conditioning in DCI Magazine.

WATER SOLUBLE POLYMERS GUMS AND RESINS;
POLY (ETHYLENE OXIDE); POLYETHYLENE GLYCOL; POLYACRYLAMIDE

As Development Engineer for Union Carbide Corporation, with responsibility for World Wide Technical Support of POLYOX® Water Soluble Resins, Meyer provided, for five years, outstanding technical support and problem solving for hundreds of major domestic and international corporations for systems using POLYOX poly (ethylene oxide) and CARBOWAX polyethylene glycol and received several awards from the company. He has developed major new consumer applications for poly(ethylene oxide) including improved lubricity of the Gillette Razor Shaving Strip and aqueous-based lubricants for the clay-steel interface. Mr. Rosen was the

developer of pelletizing technology for powdered poly (ethylene oxide) that enabled its initial use in thermoplastic extrusion and blown film processes.

Meyer has consulted on the use of hydrogels for improving the lubricity of surgical gloves. His novel work with Procter and Gamble in Belgium, in the introduction of a detergent product with significantly improved anti-redeposition properties. Meyer was also a consultant on "Rapid Water", a novel high molecular weight polymer product useful for decreasing the drag reduction of water in fire fighting hoses. He has consulted on the development and application of novel hydrogel systems used for growing plants, "second skin" and water-soluble packaging for insecticides and detergents. Meyer has also developed novel blends of thermoplastic water soluble and water-insoluble high molecular weight polymers. This work resulted in novel packaging films with hydrophilic properties. Such films have been used for packaging of detergents and toxic agricultural products.

Meyer holds the patents: "Process for forming ceramic bodies employing aqueous lubricants", "Shaped articles for conditioning hair fabricated from quaternary nitrogen-containing cellulose ether" and "Shaped article for conditioning hair- a blend of water-soluble and water insoluble polymers with inter-penetrating networks." These patents are each concerned with the effects of high molecular weight polymers, both water-soluble and water insoluble, and their behavior at interfaces. He has worked closely with synthesis chemists in the development of water-in-oil (i.e.: inverse) emulsions containing high molecular weight poly (acrylamide) anionic and amphoteric copolymers and terpolymers. Meyer holds a number of patents in this area, as well.

Mr. Rosen has reviewed and summarized over twenty- five years of the technical literature on poly (ethylene oxide). His work resulted in a major revamping and reissue of all of the Worldwide Technical Advertising Literature on POLYOX® Water Soluble Polymers. This included handling, applications, safety and toxicological aspects. His publications on the usefulness of POLYOX® Resins include: "Thermoplastic Processing", "Association Compounds", "Applications", "Dissolving Techniques", "Storage and Handling", "Environmental Impact", "Dust Properties", "The Basics" and "Toxicological Properties".

Mr. Rosen is fully familiar with the solution properties of water- soluble polymers and gums and the effect of concentration on the properties of such solutions. His knowledge of molecular domains formed in concentrated solutions of such polymers has been of use in addressing processing issues related to concentrating such solutions to powder form by means of spray drying systems.

Meyer has directed laboratory and field development programs. These included new high molecular weight poly (acrylamide) and poly (ethylene oxide) flocculants for industrial clay dispersions, taconite (iron) ore binders and phosphatic slimes (montmorillonite/attapulgitic clay)

consolidation and strengthening of highly concentrated systems. In the latter area, Meyer provided consultation to the United States Bureau of Mines. His work in the environmental aspects of mining area was the basis for his appointment as a Fellow of the Royal Society of Chemistry (London).

Mr. Rosen has also been a member of the American Institute of Mining Engineers and a former Symposium Chairman of the Flocculant/Surfactant Session. He has patented a "Process for producing a polymer-in oil emulsion". Meyer also published "An Improved Method for Consolidation of Phosphatic Slimes" which appeared as a major chapter in the Engineering Foundation's book, "Flocculation and Dewatering".

COLLOID AND SURFACE CHEMISTRY:

STABILITY OF DISPERSIONS, WETTING & SPREADING PHENOMENA, SUSPENSIONS & EMULSIONS, CLAYS, PAINT & COATINGS, PERSONAL CARE, COSMETICS

Meyer has spent many years studying the fundamental properties of finely divided materials and their behavior in liquid mediums. He is an expert at making such materials stable and using rheological techniques to measure key properties, which produce this result. Meyer has developed stable, non- aqueous liquid color toners based on fluorocarbon liquids for three-dimensional Xerox process under a grant from the Naval Weapons Test Laboratory. He has been involved with the optimization of the stability of water-in-oil Polyacrylamide flocculant emulsions and development of stable, rapidly dissolving slurries of poly (ethylene oxide) based on thickened mineral oil.

FLOCCULATING AGENTS

Meyer has published an article entitled, "An improved method for consolidation of Phosphatic Slimes" and authored a major chapter in the Engineering Foundation's book, "Flocculation and Dewatering". Meyer has published on the creaming phenomenon in silicone emulsions. He also holds several patents in the area of polymer water-in-oil emulsions as well as: "Slurries of Poly (ethylene oxide)", "Rapidly dissolved water- soluble polymer composition" and "Process for forming ceramic bodies employing aqueous lubricants".

Meyer invented a new use and process for binding mineral ores using liquid poly (acrylamide) polymers. His publications in this area include "Carbinder Polymer 498: A New Organic Binder for Taconite Ore". Mr. Rosen managed a staff of four in a two-year lab/field product development program and successfully optimized complex multivariable performance properties while developing a novel pelletizing process for Taconite (iron) Ore. This process was commercially adapted on a large industrial scale by Erie Mining Company, the second largest

mining company in the U.S. He also managed a five-year lab/field development program for the use and application of new poly (acrylamide) and poly (ethylene oxide) high molecular weight polymers for the flocculation and clean- up of Phosphatic Waste Slimes in Florida. The project was successful in converting highly fluid clay dispersions to solid form.

Mr. Rosen has been a member of the American Ceramic Society and the American Institute of Mining Engineers. Meyer has consulted for major ceramic companies involved in the preparation of highly concentrated systems. His successful work on Taconite Ore binding and enhancement of green strength was featured as the lead story in the "Pride" issue of Union Carbide World Magazine- "The Carbinder 498 Success Story- Two Man Team Defies Three-Dog Nights". Meyer has written an article on Water Treatment Polymers for Chemical Market Reporter. He holds several patents in this area including: "Process for agglomerating ore concentrate utilizing clay and dispersions of polymer binders or dry powder binders; "Process for Agglomerating ore concentrate utilizing clay and dispersions of polymer binders or dry powder binders"; "High molecular weight water soluble polymer and flocculating method using same"; "High Molecular weight water soluble polymers"; "Polymer water-in-oil emulsions" and "Process for forming ceramic bodies employing aqueous lubricants."

APPLIED RHEOLOGY & DESIGNED PRODUCT FLOW BEHAVIOR

Meyer is an internationally known rheologist. He is the developer of the Shear Thinning Index (STI) Standard Test Method cited in ASTM D-2196, "Standard Test Method for Rheological Properties of Non-Newtonian Materials by Rotational (Brookfield) Viscometer. Meyer's experience includes methods for the optimization of the rheological properties of non-newtonian, agglomerated dispersions in order to maximize their stability by converting them to solid-like behavior. He is the author of an in-depth review of the mathematical models of non-newtonian fluids and their practical use in the optimization of both aqueous and non-aqueous dispersion stability. Meyer developed rheological testing protocols to characterize and optimize the wetting, spreading and penetration phenomena associated with knife coating silicone surfactant stabilized polyurethane foamed coatings onto textile substrates used for carpet backing and other substrates.

Mr. Rosen has completed a review of patented technology in the area of gelling agents for silicone- based antiperspirant sticks and gels and reviewed emerging technology in the area of surfactants used in skin and hair- contact personal care and home care formulations. He is named as an inventor on a US and European patent entitled, "Fumed Silica Embolic Compositions" which is related to the development of designed rheological fluids useful in brain neurosurgery for embolizing vascular sites and treatment of aneurysms, arteriovenous malformations and other vascular diseases.

Meyer has over thirty year's background in the practical application of rheological principles for solving industrial problems. He has published papers in peer reviewed journals

including” A Rheogram Template for Power Law Fluids: Technique for Characterizing the Rheological Properties of Emulsions and Polymer Solutions,” and "Approximate Rheological Characterization of Casson Fluids: Template Method for Brookfield Synchro-Lectric Viscometers". His rheological work is extensively quoted in the Encyclopedia of Polymer Science and Engineering. Meyer has been a consultant for Brookfield Engineering Laboratories and is a key contributor to Brookfield’s worldwide technical literature entitled, "More Solutions to Sticky Problems". Mr. Rosen provides training seminars in practical applications of rheology.

Meyer has directed a water-soluble polymer applications laboratory for more than 15 years and developed many novel products and applications by his practical use of rheological principles for solution of real-world problems. He has also researched, assembled, classified and authored an in-depth review of over one hundred articles on mathematical models of liquid flow behavior in an article entitled: “Characterization of Non-Newtonian Flow”.

Meyer is a member of the ASTM Committee on Paint and Related Coatings. He has published a novel paper entitled, "Hair Conditioning by a Chemical Comb” in which the flow behavior of water-soluble polymers plays a key role in their hair conditioning action. He has also published an article entitled, "Estimation of Molecular Weight Error for Concentration Uncertainty in the Intrinsic Viscosity Determination" and copyrighted the "Viscosity Calculator Slide Rule” for the Brookfield Synchro-Lectric Viscometer.

Meyer has presented invited seminars on rheology at: the 17th Mid-Atlantic Regional American Chemical Society Meeting: "An Introduction to Rheological Characterization of Non-Newtonian Fluids and Some Practical Applications; the National Meeting of the Society for Cosmetic Chemists: "Principles of Applied Rheology"; and the Applied Rheology for Industrial Chemists Symposium- Kent State University: "Characterization of Non-Newtonian Fluids- An Industrial Viewpoint.

RHEOLOGICAL MODIFICATION OF NON-AQUEOUS MEDIA

Meyer has been involved in the development of a range of products which require altering flow behavior of non-aqueous fluids including, but not limited to: mineral oils, silicone oils, anti-perspirant compositions, foamed engine degreasers, esters and fragrances. Product experience includes neat fluids as well as water-in-oil emulsions where the oil phase requires thickening.

LUBRICANTS

Mr. Rosen has had experience in the development of a wide range of novel lubricant applications. These include, for example, development of the lubricating strip used in Gillette razors, and is co-inventor of two U.S. patents on nanofoams containing poly(ethylene oxide) as a

flexible lubricant delivery system for shaving (U.S. 2008/0216321 A1- Sept. 11, 2008; US2008003018). He has also developed aqueous based lubricants for use at the clay/steel interface during the manufacture of bricks, molybdenum disulfide lubricants in water-soluble poly (ethylene oxide) films and drag reduction in aqueous media. Mr. Rosen is familiar with the application of high molecular weight polymers for the enhancement of aqueous- based cutting fluids.

PRODUCTS LIABILITY, CHEMICAL TECHNOLOGY, PATENT LITIGATION

Forensic expert witness in: 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 Lightening, slips & falls, Chemistry, Chemical Engineering, Physical Chemistry & Material Properties, Product & Process Issues, OSHA Regulations, ASTM standards, Codes & Standards, Intellectual Property Management, including patent analysis/infringement as well as trade secret litigation.

MEDICAL TECHNOLOGY

Mr. Rosen was involved in the development of poly (ethylene oxide) technology for use in the first controlled release drug system developed by Pfizer. Meyer has been a consultant to top molecular genetic researchers in the lung cancer field. He has provided guidance on the development of optimal techniques for the preservation of morphology, protein and nucleic acid (RNA and DNA) markers in exfoliated sputum cells. Mr. Rosen has also been an active participant in six annual International Conferences on Screening for Lung Cancer. He has consulted for Medical Device companies engaged in development of novel surgical techniques. Mr. Rosen is an inventor on a U.S and European patent entitled “Fumed Silica Embolic Compositions”. This invention relates to the development of novel treatment of aneurysms in the brain during neurosurgery (2005). Mr Rosen is also experienced in Medical Chemistry litigation issues.

TECHNICAL ARTICLES (Peer Reviewed)

“Regulatory Requirements, Intellectual Property and Achieving Global Market Success for Cosmetic Products”, Ruud Overbeek and Meyer R. Rosen, Harry’s Cosmeticology, 9th Ed. Chemical Publishing, Inc. pg. 70- pg. 159, (July 2015). www.harryscosmeticology.com

“Silicones in Personal Care Products: Polydimethyl Siloxanes, Organosilicone Polymers & Copolymers”. Anthony J. O’Lenick, Jr., Thomas O’Lenick, Meyer R. Rosen, Harry’s Cosmeticology, 9th Ed. pg 810-pg.866, Chemical Publishing, Inc. (July 2015).
www.harryscosmeticology.com

“Cosmetic Manufacturing Processes”, Bruce Victor, Meyer R. Rosen, et. al. Part 13.1, Harry’s Cosmeticology, 9th Ed., pg. 2,081- pg. 2,186, Chemical Publishing, Inc. (July 2015).
www.harryscosmeticology.com

“Improving Cosmetic Formulation Quality Through Innovative Processing Technology: Preparation of MicroDroplet/Particle Master Batches through Innovative Compounding Techniques”, Richard Holl, P.E., Dipl.-Ing and Meyer R. Rosen, EuroCosmetics Magazine (July/August 2012)

“Intelligent Delivery Systems for Enhancing the Performance of Active Ingredients in Skin Care Formulations”, Meyer R. Rosen and Aimeann DeJohn, EuroCosmetics Magazine (July 2011)

“Your HBA Educational Roadmap to Technical and Product Development Success”, Show News, HBA Global Technical Conference (June 2011)

“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).

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"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).

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

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"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).

Patents

PRODUCT, PROCESS AND APPLICATION PATENTS

Year	Description	Patent Number
2010	Shaving Aid Delivery System for Use With Wet Shave Razors	US2008003018
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

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