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Meyer R. Rosen is Founder & President of Interactive Consulting, Inc. (IC) (www.chemicalconsult.com). His company is a technology-based consulting firm committed to Creating & Facilitating breakthroughs in market, product and process development by empowering individuals and groups involved in technical, business, leadership and culture issues.

IC provides Developmental, Technical Marketing, Professional Technical Writing and Editing and New Business Development Services internationally to the specialty chemical, personal care, cosmetic, pharmaceutical, medical device and allied industries.

CONSULTING SERVICES

IDEATION:

- Catalyst for Novel Thinking
- Applications Oriented
- Creative Technical Solutions
- Technology Transfer
- Strategic Planning & Implementation

TECHNICAL INFORMATION

- Custom Market Research
- Chemical Technology Assessment & Evaluation
 - Patent Analysis and litigation
- Capture & Presentation of Complex Information
- Mind Mapping Training & Applications

TECHNICAL MARKETING

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



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Meyer R. Rosen, FRSC, FACFE, CPC, CChE, DABFET

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

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and Chemical Engineering

DABFE: Diplomate: American Board of Forensic Examiners

DABFET: Diplomate: American Board of Forensic Engineering

and Technology

CURRENT AFFILIATIONS (Partial List)

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

Editor-in Chief, Harry's Cosmeticology, 9th Ed (2015) www.harryscosmeticology.com

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

Meyer R. Rosen

CChem, CPC, CChE, CFEI, DABFE, DABFET, FAIC Fellow: Royal Society of Chemistry (London) Fellow: American College of Forensic Examiners

Meyer R. Rosen is President of Interactive Consulting, Inc. He is a Thought-Leader and expert in the field of Technical Marketing, multi-industry Technology Applications including, but not limited to: applied rheology, applied surface chemistry, polymers and organosilicones. Mr. Rosen has 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, Meyer 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 has served as Chief Scientific Advisor to United Business Media Technical Conferences and was Director of United Business Media Technical Conference Planning.

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 Society of Cosmetic Chemists and Advisor to the Executive Director of the Society. 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.

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 filling of Regulatory Applications for the Environmental Protection Agency.

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

Book Author

Mr. Rosen is co-author of the "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 Editor (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. The book is in three volumes, 2,600 pages and has contributions from over 150 global author experts. www.harryscosmeticology.com

<u>Book Series Editor, "Personal Care & Cosmetic Technology Series"</u> (Applied Science Publishers, Elsevier Publishing.

Books in Series include:

• "Delivery System Handbook for Personal Care and Cosmetic Products: Technology, Applications and Formulations", Meyer R. Rosen, Editor, 1100 pages (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 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 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)

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. Meyer 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 instability for 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 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 each year, for over 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. 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 work with a major detergent manufacturer culminated 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. Meyer 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. He 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/attapulgite 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 in 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 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. Meyer 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 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 Uncertainness 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 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, 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 controlled release drug systems. 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. Meyer 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

"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)

"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", <u>J. of Coatings Technology 50</u>, (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", <u>J. Appl. Polymer Sci.</u>, 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. <u>Coll.& Intf.</u> <u>Sci.</u> 36(1), 155 (1971).

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

<u>Patents</u>

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

Method extinguishing liquid hydrocarbon fires & U.S. 3,621,917 compositions therefore comprising silicone surfactants.

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