

VITAE

**ROBERT J. BOCKSERMAN**

**BUSINESS EXPERIENCE**

**Conatech Consulting Group, Inc. - St. Louis, MO, 1985-Present, Owner and President**

Technical Consultant to the food, pharmaceutical, medical device, cosmetic and chemical industries. Conatech Consulting Group, Inc. is a consulting engineering firm comprised of approximately 42 associates in a network. All of the members of the network have approximately 35 years of experience in either academics or private industry, many with Ph.D degrees who have the necessary expertise and experience covering the areas of product development, package development, manufacturing and packaging line design, quality control and auditing for the food, pharmaceutical, medical device and chemical industries.

Our technical consulting work covers recommendations on containers, closures, packaging components, polymer films, additives, laminations, processing and packaging equipment, materials of construction, suppliers of these services, contract packaging firms, independent analytical laboratories, and sources of supply for chemicals.

Our research activities for our clients include literature research on products, processes and patents. We teach various manufacturing and packaging technologies to corporations throughout the continental United States as well as conducting safety and environmental audits on products, processing and packaging equipment and plant facilities.

Our area of specialization as an expert witness is primarily in product liability. This liability originates from the defective packaging and processing of hazardous products, defective and contaminated products such as foods, pharmaceuticals, medical devices, cosmetics and chemicals that are capable of causing serious injury or death. We cover injury from defective machinery and out-of-specification products that have been brought to the marketplace. Some of our work involves defective containers, closures and container labels that have important information that is missing or information on the label that is incorrect.

Other work involves products that have been contaminated and cause injury or death or with products that are defective and cause serious incidents.

We offer technical assistance with patent infringement, trade secrets, design and mechanical patents, and reverse engineering of equipment. Part of our work as expert witnesses is in interpreting Federal Regulations for our clients. Most Federal Regulations covering the products we are asked to review originate in the Code of Federal Regulations or in the Federal Register.

We perform a consulting service to law firms, insurance firms and corporations in making recommendations on the merits and feasibility of moving an incident into the first phase of litigation.

We offer on-going technical support to law firms, insurance companies and private corporations covering North America. We offer not only research and discovery for our attorney-clients but also offer testimony at depositions and at trial. Some of our cases where we have acted as expert witnesses, end in mediation or in arbitration.

**Overlock Howe Consulting Group- St. Louis, MO, 1984-1985, Director, Technical Services**

Responsible for technical consulting services to manufacturing and packaging companies in the areas of product/package development, research and engineering, packaging, manufacturing, material handling, warehousing/distribution and quality control.

Overlock-Howe consulting firm was a marketing and graphics design firm. My responsibilities were to develop label format, wording and label design with colors, wording and precautionary statements (if required) on container labels to comply with federal regulations and industry standards. Designed format and wording for technical trade brochures, product and package literature for corporations, distributors and consumers. Performed technical assistance for clients who had problems with product/package incompatibilities. Presented clients with required information and data on materials of construction for containers, closures, packaging components, polymer films and laminations and presented information to clients in choosing the correct and most appropriate primary and secondary packaging for their particular products in order to meet federal regulations and

industry standards.

**Pharma-Tech Industries, Inc.- Union, MO, 1967-1984, Owner and President**

A full-service contract manufacturing and packaging firm covering processing, blending, manufacturing and packaging of liquids, powders, capsules, tablets, creams and ointments for the food, pharmaceutical, medical device and chemical industries. Other functions were the assembly of diagnostic, surgical and chemical kits. All operations were automated except for the hand assembly of the various kits.

In addition to the contract manufacturing segment of the firm, technical consulting was performed for the customers by providing customers with information, data and recommendations on containers, closures, packaging materials, primary and secondary packaging, and label format for their products. The firm had an analytical laboratory, machine shop and a complete quality control and engineering maintenance department providing these services to the three shifts- six days a week. All processing and packaging departments were fully segregated to prevent any possibility of cross contamination between the various products that were processed on a daily basis.

The firm gained experience in working with the following government agencies- Food & Drug Administration, Occupational Safety & Health Agency, Drug Enforcement Agency, Office of Defense Supply, Veterans Administration, Environmental Protection Agency, Justice Department-Alcohol Division, Consumer Product Safety Commission, United States Department of Agriculture and the Department of Transportation.

All chemical products were processed, blended and packaged in a building separated three miles from the main plant (for segregation purposes and to prevent cross-contamination).

**Monsanto Company (Krummerich Plant)- Sauget, IL, 1966-1967, Purchasing Agent**

Responsible for the purchasing of all the raw materials used in the Monsanto Krummerich Plant for the three operating divisions- Organic, Inorganic and Agricultural Divisions. Also responsible for the purchasing of large volume commodities-containers, packaging

components, pallets and commodities such as safety gear, gloves, underwear, safety shoes and chemical suits. Worked as a team member with the department superintendents to resolve problems with out-of-specification raw materials. Reviewed all contracts for raw materials and worked with corporate purchasing on how to obtain short-supply raw materials. Was appointed to the Plant Safety Team and audited various departments for possible and potential problems that could effect the safety of production and supervisory personnel.

Also responsible for all engineering service contracts-contracts with individual engineering and service companies for work to be performed at the Krummerich Plant on a contract basis. Responsible for implementing the logistics of the movement of surplus raw materials and containers between the three operating divisions. Responsible for the sale of surplus raw materials, containers and pallets to outside vendors and to national companies that specialize in the purchase of surplus raw materials, containers and out of specification commodities.

Worked with department superintendents on quality control problems of incoming raw materials that do not meet the rigid specifications of the Monsanto Company and the prompt notification to suppliers as to what the problems are and what must be initiated to prevent the problem from arising in future shipments.

I was given the responsibility on 24 raw materials for the direct negotiations with raw material suppliers, through a bidding process, to obtain for the three Monsanto Company operating divisions, the best price, highest quality, and delivery efficiencies and for the commodities to conform to Monsanto Company rigid specifications.

**Monsanto Company - St. Louis, MO, 1960-1965, Research Chemist-  
Agricultural Chemical Division**

Responsibilities covered the formulation of agricultural chemical products, product development with the use of resins, waxes, additives, solvents, emulsifiers, stabilizers, coatings and polymers. Package development to insure the safe transport of various agricultural chemical products. Development of analytical testing procedures by the use of gas chromatography, mass spectroscopy, thermography, centrifugation and chemical microscopy. Analytical

testing of new and existing products from various Monsanto plant sites and competitive products to determine if the products meet specifications. Assistance in the training of Monsanto personnel from the United States and abroad in the use of new instrumentation and testing procedures. Chemical process research to develop and modify existing process procedures and to develop new agricultural chemical products and to modify existing products, in the Research Center pilot plant.

Research work with the Monsanto Agricultural Chemical Division Engineering and Development Departments on problems involving chemical process. Traveled to various Monsanto contract formulators to work on various plant process and product problems. Basic research on problems involving product blending and transport. Traveled to various suppliers of chemical processing and blending equipment to make recommendations on new equipment and accessories to existing Monsanto equipment in order to improve on products. Engineering research at the Monsanto Queeny and Research Center Pilot Plants on various processing problems. Managed the Wurster Coating Process, (the coating of air-suspended particles) in the research center pilot plant. I had six patents applied for before leaving Monsanto Company, involving coating air-suspended particles, automated blending and coating technologies, continuous processing technologies, and the automated system for the production of emulsifiable concentrates. Performed scale-up and scale-down projects at the Research Center, on Monsanto agricultural chemical products.

**Allan Drug Company- St. Louis, MO, 1957-1959, Production Manager**

This manufacturing firm produced pharmaceutical products both prescription and over-the counter. I was responsible for manufacturing, plant operations, securing of blending, and packaging equipment. Supervised all production and maintenance personnel. Designed the processing and packaging lines and supervised the quality control personnel. Quality control personnel checked all incoming raw materials, in-process products, finished goods, packaging components and labels, prepared retained samples as well as samples to be sent to an independent testing laboratory. All products were certified as to meeting specifications before shipping. Made sales calls with various salesmen to analyze product problems and visited stocking distributors, to review problems with

the products.

**Sealtest Corporation- Peoria, IL, 1955-1956, Chemist (Production)**

Responsibilities included the initiating and improvement of quality control procedures in the Sealtest Corporation Plant, a manufacturing firm for the production of dairy products. The plant processed and packaged milk, cottage cheese, ice cream, and juice products. Developed new analytical procedures for the testing of the various commodities, developed new methods of cleaning and sanitation of the process equipment, blending equipment, process tanks and piping, as well as sanitation of the floors, walls and ceiling areas. Wrote the maintenance manual and the analytical product testing manual for the plant. Developed the protocol for the cleaning and sanitation of all plant process equipment.

Worked on product and package development and visited various food warehouse distributors to observe and analyze problems with the products. Worked with the marketing department to solve problems associated with product transportation and distribution throughout the state of Illinois. Assisted the plant manager in the lay-out of new process and packaging lines to improve productivity.

Worked with farmers on below-specification and high-bacterial count raw milk, determined sources of bacterial contamination, butter-fat losses in the plant and problems with out-of-specification packaging components. Designed and equipped the analytical laboratory with new instrumentation equipment, formulated a product development department and gave on-going support to the company's distributors and customers with technical information and data.

**EDUCATION**

**Washington University - St. Louis, MO - 1960-1965**

Chemistry Courses

**St. Louis College of Pharmacy - St. Louis, MO - 1958-1959**

Pharmacy Curriculum

**Bradley University - Peoria, IL - 1955-1956**

Economics and Marketing Curriculum

**University of Missouri - Columbia, MO - M.S. Agriculture, 1955**

Food Technology, Food Chemistry Curriculum

**University of Missouri - Columbia, MO - B.S. Agriculture 1952**

Food Technology, Food Chemistry Curriculum

**Seminars and Continuing Education Workshops** attended cover the following topics:

Pharmaceutical manufacturing, quality control procedures, packaging engineering, plastics and resins technology, food processing, food technology, marketing management, regulatory procedures and compliance pertaining to OSHA, USDA, EPA, FDA, Department of Commerce, statistics, instrumentation, analytical procedures, chemical process, manufacturing and packaging equipment, negotiating.

### **HONORS**

1982-1983, 1996, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 "Who's Who in the World"  
1981-1982, 1996-1997, "Who's Who in Finance and Industry"  
1996, "American Biographical Institute, Inc."  
1995, "Sterling Who's Who Directory"  
1995, "Who's Who Worldwide Registry"  
1995, "National Directory of Who's Who In Executives and Professionals"  
1994-1995, "Who's Who Registry of Global Business Leaders"  
1994, 1995, 1997, "American Men & Women of Science"  
1993-1994, "Who's Who in Leading American Executives"  
1993-1994, "Who's Who Registry of Global Business Leaders"  
1992-1993, "Men of Achievement", (16th Edition)  
1992, "Who's Who in America" 47th Edition, (Special Index Section)  
1992-1993, 1995-1996, 1998-1999, 2000-2001, 2002-2003, 2003-2004, 2005-2006, 2006-2007, 2008-2009  
"Who's Who in Science and Engineering"  
1991, "Who's Who in American Business Leaders"  
1978-1979, 1994-1995, 1996-1997, 2000, 2002, 2003, 2005, 2006, 2007 "Who's Who in the Midwest"  
1997-1998, 1999-2000, 2000-2001, 2002-2003, 2004-2005, 2006-2007 "Who's Who in Medicine and Healthcare"  
1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 "Who's Who in America"  
"Dictionary of International Biography", (27th, 28th, 29th, 30th, 31th Edition)  
"Outstanding Scientists of the 20th Century", (2nd Edition)  
"Outstanding People of the 20th Century", (2nd Edition)  
National Republican Congressional Committee- Business Advisory Council;  
Gold Medal Recipient- October 7, 2003

### **CONTRIBUTING AUTHOR**

Packaging Forensics: Package Failure in the Courts  
Chapter 7. "Ocular Injuries Caused by Institutional Food Packaging", Page 51-74. ISBN: 0-913875-78-3  
Tuscon, Arizona: Lawyers & Judges Publishing Company, Inc. (2000).

### **SPEAKER'S BUREAUS**

Institute of Food Technologists (National Society) 1989-Present  
Professional Speaker's Bureau

Institute of Packaging Professionals (National Society) 1984-Present

Professional Speaker's Bureau

**TECHNICAL CONSULTING**

Technical Consultant to the Creve Coeur Fire Protection District-  
Creve Coeur, MO (Chemical, Biological & Radiological Technology) 2002-Present

St. Louis County Hazmat Support Team, [Member Number: 464]

United States Environmental Protection Agency-Washington, DC- Technical Consultant  
for Hazardous Products, 2005-Present

United States Consumer Products Safety Commission, Bethesda, MD- Technical  
Consultant for Hazardous Products, 2005-Present

**CERTIFICATIONS**

Institute of Packaging Professionals- Certified- ID # 25771

The American College of Forensic Examiners- ID # 17854

Community Emergency Response Team, United States Department of Homeland  
Security, St. Louis County Sector- 2007

**MEMBERSHIPS, PAST AND PRESENT**

Academy of Science of St. Louis,  
MO

Missouri Historical Society

Allied Drug and Chemical  
Association

Missouri Waste Control Coalition

American Assn. for the  
Advancement of Science

National Directory of Expert  
Witnesses

American Chemical Society

National Ethical Pharmaceutical  
Assn.

American College of Forensic  
Examiners

National Forensic Center (Technical  
Litigation Specialists)

American Society of Testing  
Materials (ASTM)  
D-10, Packaging Technical  
Committee and F-4,  
Medical/Surgical  
Materials/Devices Committee

National Packaging Engineering  
Consultants Assn.

New York Academy of Sciences

American Technion Society

Packaging Consultants Council  
(IOPP)

|   |   |
|---|---|
| Association of Consulting Chemists & Chemical Engineers   | Phi Delta Chi, Pharmaceutical Fraternity  |
| Engineers Club of St. Louis   | RCGA, St. Louis, MO                       |
| Entrepreneurial Assn. of St. Louis  | Rotary International                      |
| Environmental Excellence  | Sigma Alpha Mu, Social Fraternity         |
| Industrial Pharmacists Association  | Sigma Xi, Scientific Honorary             |
| Institute of Food Technologists   | Society of Cosmetic Chemists              |
| Institute of Packaging Professionals (IOPP) Committee of 100, International 2001 Package Design Competition | Society of Packaging Engineers            |
| International Society of Pharmaceutical Engineers   | St. Louis Pharmacists Association         |
| International Society of Technical and Environmental Professionals  | Teltech Resource Network                  |
| Juvenile Diabetes Research Foundation   | The American Nutraceutical Association    |
| Library of Congress Associates  | The Packaging Institute                   |
| Medical Device Task Force Committee (IOPP)  | University of Missouri Alumni Assn.       |
| Missouri Academy of Science   | West St. Louis County Chamber of Commerce |

### **TEACHING FUNCTIONS**

University of Missouri, Rolla, School of Engineering Management, 1979-Present  
 Conducted classes in Package Engineering, Coatings, Laminations, Plastic Film Packaging, Case Studies, Packaging Law and Regulations and Forensic Engineering. (Visiting Lecturer)

University of Missouri, Columbia, Department of Food Science and Nutrition, 1985-Present  
 Conducted classes in Food Technology, Food Toxicology, and Sanitation. (Visiting Lecturer)

University of Missouri - St. Louis County Extension, Clayton, MO (St. Louis) 1991-Present  
 Conducted classes in Food Litigation and Case Studies. (Visiting Lecturer)

Northwestern University, Evanston, IL 1991-Present - J.L. Kellogg Graduate School of Management and The Robert R. McCormick School of Engineering  
Conducted classes in Environmental Auditing. (Visiting Lecturer)

### **TECHNICAL REVIEWER ACTIVITIES**

Technical reviewer of articles to be submitted for publication. JOURNAL OF THE INSTITUTE OF PACKAGING PROFESSIONALS, The Institute of Packaging Professionals, 1991-Present.

Technical reviewer of articles to be submitted for publication. JOURNAL OF PACKAGING TECHNOLOGY, North American Publishing Co., 1992-Present.

Technical reviewer of articles submitted for the Scholarship Grants & Research Projects Program, MISSOURI WASTE CONTROL COALITION, 1993-Present.

Technical reviewer of articles submitted for publication. MEDICAL DEVICE & DIAGNOSTIC INDUSTRY, Canon Communications, Inc., 1993-Present.

Technical reviewer of articles submitted for publication. MEDICAL PLASTICS AND BIOMATERIALS, Canon Communications, Inc., 1995-Present.

Technical reviewer of articles submitted for publication. THE FORENSIC EXAMINER, American College of Forensic Examiners Inc., 2000-Present.

### **ADVISORY FUNCTION**

Packaging Industry Advisory Committee, Department of Engineering Management, University of Missouri-Rolla School of Engineering; Rolla, MO. 1978-Present

### **EDITORIAL BOARDS**

Editorial Advisory Board, PROCESSING MAGAZINE, Northbrook, IL (2006)  
Editorial Board, JOURNAL OF PACKAGING TECHNOLOGY, North American Publishing Co., 1992-Present

### **GRANTS**

Small Business Innovation Research Grant (SBIR)-No. NS26311-01, NANOSPHERES TARGET DYES AND DRUGS FOR CELLULAR RESEARCH, awarded by: National Institute of Neurology and Communicative Disorders and Stroke. (04/01/88 - 09/30/88)

### **SEMINARS PRESENTED**

8/28/95 "The Technology of Form-Fill-Seal Packaging: Engineering, Technology & Applications", McCormick Place-East, Chicago, IL, International Converting Machinery and Materials Conference and Exposition.

04/15/97 "Flexible Packaging for the Food Industry: Designing for Quality and Productivity", McCormick Place-North, Chicago, IL., International

Converting Machinery and Materials Conference and Exposition.  
12/8-9 An Introduction to Various Sealing Methods, Technology, Engineering and  
2005 Industrial Applications”  
Mount Laurel, NJ Seminars for Engineers

### **PANELIST**

1997- Medical Device & Diagnostic Industry Magazine, Santa Monica CA, Panelist  
Present to Offer Medical Device Manufacturers Solutions to Problems They  
Encounter, in the Column Titled "HELP DESK".  
2001- The Industry Standard Magazine, San Francisco, CA, The Standard's  
Present Advisory Panel  
2007 Clear Seas Research Foundation- Safety Panel on Personal Protection (BNP  
Media-Troy, Michigan)  
2007 Information Resources, Inc. Research Panel (Pittsburgh, PA)

### **PUBLICATIONS**

GATEWAY ENGINEER MAGAZINE, St. Louis, MO, December, 1990, Pages 5 - 7,  
"The Present Status and Future Challenge of Packaging".

GATEWAY ENGINEER MAGAZINE, St. Louis, MO, December 1991, Pages 5-6-9,  
"Packaging Waste Management".

KANSAS CITY COMMERCE MAGAZINE, Kansas City, MO, May, 1992,  
"Packaging Waste Management, How it is Addressing the Problems We Face".

GATEWAY ENGINEER MAGAZINE, St. Louis, MO, October, 1992, Pages 13-15,  
"Environmental Auditing".

FLEXO MAGAZINE, Ronkonkoma, NY, March, 1994, Pages 47-48,  
"Designing Packaging for the Environment-Part-I".

FLEXO MAGAZINE, Ronkonkoma, NY, May, 1994, Pages 124-126, 129,  
"Designing Packaging for the Environment-Part-II".

STERILIZER TECHNOLOGY INNOVATIONS, Published by Environmental Tectonics  
Corporation, Southampton, PA, Volume 6/No. 1/1994,  
"The Effect of Sterilization Methods On Various Polymeric Packaging Materials".

PHARMACEUTICAL & MEDICAL PACKAGING NEWS, Paoli, PA, March, 1995, Page  
16,  
"Validation -Its Importance In The Packaging Line Process".

KANSAS CITY COMMERCE MAGAZINE, Kansas City, MO, June, 1995, Pages 9-18-19-  
20,  
"The Answer to the Solid Waste Riddle".

PHARMACEUTICAL & MEDICAL PACKAGING NEWS, Paoli, PA, November, 1995,  
Page 16,  
"The Status of Rigid Packaging".

MEDICAL PLASTICS AND BIOMATERIALS, Santa Monica, CA; July/Aug, 1996, Pages  
26-33,  
"Innovations in Polymer Films for Medical Packaging".

JOURNAL OF FOOD QUALITY, Yardley, PA; June/July, 1998. Pages 33-36,  
"Listeria Monocytogenes - Recognized Threat to Food Safety".

### **PRESENTATIONS**

- 04/04/85 "Food Packaging and Processing, What Will Happen in the Next 50 Years"  
University of Missouri, Columbia, MO, Dept. of Food Science and Nutrition, Graduate Seminar
- 04/15/85. "Technology of Cosmetic Packaging"  
Clayton, MO, National Society of Cosmetic Chemists, St. Louis Section
- 09/09/85 "The Chemistry and Physiology of Acesulfame K"  
Clayton, MO National Institute of Food Technologists, St. Louis Section
- 02/10/86 "Quality Control From the Management Standpoint"  
University of Missouri, Columbia, MO, Dept. of Food Science and Nutrition, Annual Food Conference
- 09/08/86 "Mass Transfer Concepts in Food Engineering"  
St. Louis, MO, National Institute of Food Technologists, St. Louis Section
- 12/16/86 "Quality Control Concepts in the Pharmaceutical Industry"  
St. Louis, MO, American Society for Quality Control, St. Louis Section
- 11/17/87 "Toxicology in the Chemical Environment"  
St. Louis, MO, American Chemical Society, St. Louis Section
- 01/11/88 "Technology of Cyclodextrins"  
St. Louis, MO, National Institute of Food Technologists, St. Louis Section
- 02/06/89 "The Technology of Ohmic Heating in the Food Industry"  
St. Louis, MO, National Institute of Food Technologists, St. Louis Section
- 02/20/89 "Technology of Plastic Film Packaging"  
St. Louis, MO, Society of Plastics Engineers, St. Louis Section
- 03/21/89 "Quality Control Concepts in the Food Industry"  
St. Louis, MO, American Society of Quality Control, St. Louis Section
- 7/17/90 "Environmentally Conscientious Packaging, Theory and Practice"  
Columbia, MO, Annual Missouri Waste Management Conference
- 10/11/90 "Packaging Waste, Is There a Problem"  
University of Missouri, Rolla, MO, School of Engineering, Packaging Industry Advisory Committee
- 01/19/91 "The Professional Packaging Consultant, Criteria Required for Servicing the Client"  
Orlando, FL, Packaging Consultants Council (IOPP), Semi-Annual Meeting

- 01/26/91 "Packaging Waste, How is the Industry Solving the Problem"  
University of Missouri, Rolla, MO, Meramec Regional Planning Commission  
Conference
- 04/20/91 "Plastics Packaging"  
St. Louis, MO, Solid Waste Management Seminar, National Science Foundation,  
Ridgeway Center, Missouri Botanical Garden
- 04/24/91 "The Technology of Process Automation, How it Can Increase Efficiency, Productivity  
and Quality"  
New Orleans, LA, Moderator, Food and Beverage Packaging Expo and Conference  
(Pack Alimentaire' 91)
- 07/16/91 "The Technology of Bio and Photodegradation of Polymers"  
Columbia, MO, Annual Missouri Waste Management Conference
- 10/03/91 "The Technology of Form-Fill-Seal Packaging With Applications for Pharmaceuticals &  
Cosmetics"  
Philadelphia, PA, The Pharmaceutical and Cosmetic Eng. World Conference and  
Exposition
- 11/03/91 "Packaging Waste Management"  
Chicago, IL, Packaging Consultants Council (IOPP), Semi-Annual Meeting
- 02/17/92 "The Technology of Bio and Photodegradation of Polymers"  
St. Louis, MO, The Society of Plastics Engineers, St. Louis Section
- 03/16/92 "Current Recycling Legislation. How it Will Effect the Average Consumer"  
St. Louis, MO, Missouri University Alumni Association, St. Louis Chapter
- 04/21/92 "The Technology of Scanning and Sensing Systems"  
St. Louis, MO, American Society for Quality Control, St. Louis Section
- 04/23/92 "Safety Protocol for the Pilot Plant Laboratory"  
Rolla, MO, University of Missouri, Rolla, School of Eng., Packaging Industry Advisory  
Committee
- 08/14/92 "Incineration of Hazardous Waste"  
Columbia, MO, University of Missouri, Engineering Extension Program, Hazardous  
Waste Management - Annual Summer Institute
- 02/08/93 "Chemical and Biological Indicators for Food Transport and Distribution"  
St. Louis, MO, Institute of Food Technologies--St. Louis Section
- 03/28/93 "Applications of Time/Temperature/Impact Indicators for the Packaging Industry"  
Rolla, MO, University of Missouri-Rolla, School of Eng. Packaging Industry Advisory  
Committee
- 05/26/93 "Packaging-Its Role in Marketing Strategy"  
Javits Convention Center, New York, NY, HBA '93 Global Conference and Exposition
- 07/20/93 "Source Reduction- A Primary Requirement For Packaging"  
Columbia, MO, 1993 Missouri Waste Control Conference
- 08/30/93 "The Present and Future Status of Packaging"  
Chicago, IL, Moderator, The Converting Machinery and Materials Conference and  
Exposition (CMM International)
- 08/30/93 "The Present Status and Future Challenge of Packaging- Problems Facing the

- Converting Industry and What Initiatives Must Now Be Taken"  
Chicago, IL, Moderator, The Converting Machinery and Materials Conference and  
Exposition (CMM International)
- 09/09/93 "The Technology of Environmental Toxicology: What You Should Know About  
Identifying the Contaminants"  
Washington, DC, Applying Science to Environmental Solutions Conference
- 10/25/93 "Chemical Toxicology-Human Exposure and Response"  
Chicago, IL, Applying Science to Environmental Solutions Conference
- 03/15/94 "Chemical, Biological and Enzymatic Indicators as Quality Control Devices"  
St. Louis, MO, American Society for Quality Control, St. Louis Section
- 10/11/94 "Packaging-Its Role in Marketing Strategy"  
Memphis, TN, Institute of Packaging Professionals, Mid-South Chapter
- 10/26/94 "Gas-Plasma Sterilization Technology"  
Rolla, MO, University of Missouri-Rolla, School of Engineering, Packaging Industry  
Advisory Committee
- 6/27/95 "Teratogenetic Testing Protocols-How They Apply To Cosmetic Products"  
Jacob J. Javits Convention Center, New York City, NY, Health & Beauty Aids (HBA) '95,  
Global Exposition and Educational Conference
- 6/28/95 "Rigid Packaging Concepts Utilized in the Medical Device Industry"  
Princeton, NJ, Medical Packaging Symposium '95, Scanticon Conference Center
- 10/25/95 "Expansion and Technology in the Food Processing Industry-Implications for the  
Future"  
Rolla, MO, University of Missouri-Rolla, School of Engineering, Packaging Industry  
Advisory Committee
- 4/24/96 "Proposed Packaging & Processing Machinery Standards for the Food, Drug, and  
Medical Device Industries"  
Rolla, MO, University of Missouri-Rolla School of Engineering; Packaging Industry  
Advisory Committee
- 6/17/98 "The Technology of Food Irradiation, Past, Present, & Future"  
Richmond Heights, MO, Experience, Inc. (An Organization of Retired Chemists,  
Engineers, and Technical Personnel).
- 11/17/99 "Chemical Toxicology, Safety and Handling of a New Chemical Product: How a  
Chemical Consultant Approaches this Undertaking"  
New York, NY, 48th Chemical Process Industries Exposition and Conference
- 10/27/00 "Principles of Occupational Toxicology-Interpreting Chemical Hazards"  
St. Louis, MO, 35th Midwest Regional Meeting of the American Chemical Society
- 4/5/01 "Flexible Packaging Technology- As Applied to the Food Industry"  
Columbia, MO, Missouri Milk, Food & Environmental Health Association, Annual  
Educational Conference
- 6/12/01 "New Developments in Cosmetic Safety: How to Protect the Consumer from Harmful  
Products"  
New York City, NY, Ninth Annual Health & Beauty Aids Global Exposition and  
Educational Conference, Jacob K. Javits Convention Center

- 7/31/01 "Recycling Technology- How it Effects the Environmnet"  
Creve Coeur, MO, Creve Coeur Government Center
- 10/24/01 "Global Warming- Past History, Present Status, and Future Implications"  
Creve Coeur, MO, Adult Education Institute
- 10/16/02 "The Technology & Politics of the Food Irradiation Process"  
Richmond Heights, MO, Clayton/Ladue Rotary Club
- 12/6/02 Presentation 1 "Quality Control , Validation, Auditing, Design and Risk Engineering-To  
Prevent Product Liability Litigation"  
Presentation 2 "The Theory and Application of Warnings-Used in the Industrial Sector"  
Seminar-Preventing Product Liability Litigation, Webster University, Webster Groves,  
MO,
- 4/23/03 "How the Concept of Ethics Relates to the Expert Witness Function in the Area of  
Litigation"  
Seminar Leader for the "Ethical Decision Making in the Workplace" seminar sponsored  
by the Rockwood School District, Eureka, MO
- 5/6/03 "Food Irradiation -Past, Present and Future"  
St. Louis Section, Institute of Food Technologists, The Engineer's Club, St. Louis, MO
- 3/24/04 "The Identification of Hazardous Chemicals"  
Creve Coeur, MO; St. Louis County Hazmat Team (Fire Chiefs from the municipalities  
making up St. Louis County, MO)
- 11/11/04 "Requirements for Understanding and Implementing Environmental Auditing-For the  
Industrial Sector"  
Orlando, FL; Annual Technical Conference and Workshop. The International Society of  
Technical and Environmental Professionals
- 4/26/06 "The Fundamentals of Fractional Distillation"  
Creve Coeur, MO, St. Louis County Hazmat Team Monthly Meeting
- 1/7/07 "The Fundamentals of Work Ethics Upon Entering Industry"  
John Brown Scholarship Program, University of Missouri-College of Agriculture,  
Columbia, M
- 5/9/07 "Innovations in Polymer Films for Medical Packaging"  
Pharmaceutical and Medical Packaging- 2007, 17th Annual International Conference,  
Copenhagen, Denmark, (Meeting Forum for Pharmaceutical and Medical Packaging  
Professionals)

### **PRODUCT/PACKAGE JUDGING ACTIVITIES**

Institute of Packaging Professionals- Committee of 100, International 2001, 2002 Package  
Design Competition

Institute of Packaging Professionals- International Package Design Awards- 2005

### **PUBLIC SERVICE ACTIVITIES**

Stormwater Engineering Committee, City of Creve Coeur; Creve Coeur, MO, 1991-2000

Environment and Recycling Committee, City of Creve Coeur, MO, 2001-Present

### **VOLUNTEER-TUTORING**

Volunteer Tutor- Ladue School District (St. Louis, MO), 1999-Present

Volunteer Tutor- Parkway School District (St. Louis, MO), 2001-Present

Mentor- Clayton School District (Clayton, MO), 2001-Present

Mentor- University of Missouri, Columbia, MO College of Agriculture, Food Chemistry and Engineering, Processing/Packaging/Product & Package Development, 2005-Present

### **MILITARY SERVICE**

United States Army, 1952-1954, 7th Division, Department of Intelligence, Korean Theater of Operations,

Attended the Far East Intelligence School, North Camp Drake, Tokyo, Japan, January-February 1954.

Honorable Discharge, July 1954. Secret Clearance issued July 1953.

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